8:15-cv-00426-JMG-CRZ Doc # 127 Filed: 07/05/17 Page 1 of 39 - Page ID # 1320

GUILLERMO HERRERA, III VS. UNION PACIFIC RAILROAD COMPANY 05/25/2017 Douglas Casa, Ph.D.

| 03/23/20 | Douglas Casa, Ph.D. |
|----------|--|
| 1 | IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEBRASKA |
| 2 | AT OMAHA, NEBRASKA |
| 3 | GUILLERMO HERRERA, III : |
| 4 | PLAINTIFF, : |
| 5 | VS. : CASE NO. |
| 6 | UNION PACIFIC RAILROAD : 8:15-CV-426-JMG-CRZ |
| 7 | COMPANY, a Delaware : corporation : |
| 8 | DEFENDANT : |
| 9 | |
| 10 | |
| 11 | DEPOSITION OF: DOUGLAS CASA, Ph.D. |
| 12 | |
| 13 | 25th day of May, 2017 At 9:33 a.m. |
| 14 | |
| 15 | HELD AT: |
| 16 | Nathan Hale Inn University of Connecticut |
| 17 | 855 Bolton Road Storrs, Connecticut 06268 |
| 18 | |
| 19 | |
| 20 | |
| 21 | Reporter: Victoria L. Germani, RPR, LSR #262 |
| 22 | |
| 23 | BRANDON HUSEBY REPORTING & VIDEO, LLC 249 Pearl Street |
| 24 | Hartford, CT 06103 (860) 549-1850 |
| 25 | |
| | |

| | | Page 2 | | Page |
|--|---|---|--|---|
| 1 2 | APPEARANCES: | - | 1 | THE REPORTER: Attorney Cox, would you like |
| 2 | REPRESENTING THE PLAINTIFF: | | 2 | to purchase a copy of the transcript? |
| 3 | | | 3 | MR. COX: Yes, e-tran and condensed. |
| | BRENT COON & ASSOCIATES, PC | | 4 | |
| 4 | 3801 East Florida Avenue Suite 905 | | 5 | DOUGLAS CASA, Ph.D., having been first duly |
| 5 | Denver, Colorado 80210 | | 6 | sworn by Victoria L. Germani, RPR, LSR, and |
| | PHONE: 303-756-3243 | | 7 | Notary Public within and for the State of |
| 6 | EMAIL: jim.cox@bcoonlaw.com BY: JAMES L. COX, JR, ESQ. | | 8 | Connecticut, was examined and testified as |
| 7 | (Appearing by telephone) | | 9 | follows: |
| 8 | | | 10 | |
| 9 | REPRESENTING THE DEFENDANT: | | 11 | EXAMINATION BY MR. SCHMITT: |
| . 0 | IAMCON DUCAN AND MUDDAY IID | | 12 | Q. State your name for the record. |
| 1 | LAMSON, DUGAN AND MURRAY, LLP 10306 Regency Parkway Drive | | 13 | A. Douglas James Casa, C-a-s-a. |
| | Omaha, Nebraska 68114 | | 14 | Q. And your occupation? |
| 2 | PHONE: 402-397-7824 | | 15 | A. I'm a professor at the University of Connecticut |
| 3 | EMAIL: dschmitt@ldmlaw.com BY: DAVID J. SCHMITT, ESQ. | | 16 | Q. All right. Dr. Casa, I represent Union Pacific |
| 3 4 | DI. DAVID O. SCHTIII, ESQ. | | 17 | Railroad in a lawsuit filed by Guillermo Herrera, III, |
| 5 | | | 18 | relating to a heat-related incident that he had on |
| 6 | | | 19 | July 26th of 2015. |
| 7 | | | 20 | 1 |
| 9 | | | | You have been designated by Mr. Herrera's |
| 0 | | | 21 | attorney, Jim Cox, as an expert witness to testify on |
| 1 | | | 22 | his behalf. I'm, therefore, here today to take your |
| 2 | | | 23 | deposition to find out about all opinions and bases for |
| 4 | | | 24 | your opinions that you intend to render at trial. Okay |
| 25 | | | 25 | A. Yes. |
| | | Page 3 | | Pag |
| 1 | INDEX | | 1 | Q. If at any time I ask a question that you don't |
| | | | _ | £. ===-1 -= = 1 1 1 |
| | WITNESS: DOUGLAS CASA, PH.D. | PAGE | 2 | understand or it's unclear, please ask me to repeat it |
| | | | | understand or it's unclear, please ask me to repeat it |
| 3 | EXAMINATION BY MR. SCHMITT | 4 | 2 | understand or it's unclear, please ask me to repeat it |
| 3 | | | 2 | understand or it's unclear, please ask me to repeat it or rephrase it; and I'll be happy to do so. All right A. Yes. |
| 3 4 5 | EXAMINATION BY MR. SCHMITT | 4 | 2 3 4 | understand or it's unclear, please ask me to repeat it or rephrase it; and I'll be happy to do so. All right: A. Yes. |
| 3 4 5 | EXAMINATION BY MR. SCHMITT EXAMINATION BY MR. COX | 4 143 | 2 3 4 5 | understand or it's unclear, please ask me to repeat it or rephrase it; and I'll be happy to do so. All right A. Yes. Q. Dr. Casa, let me ask you just a little bit about |
| 3 4 5 6 7 | EXAMINATION BY MR. SCHMITT EXAMINATION BY MR. COX | 4 143 | 2 3 4 5 6 | understand or it's unclear, please ask me to repeat it or rephrase it; and I'll be happy to do so. All right A. Yes. Q. Dr. Casa, let me ask you just a little bit about your background. |
| 3 4 5 6 7 | EXAMINATION BY MR. SCHMITT EXAMINATION BY MR. COX | 4 143 | 2 3 4 5 6 7 | understand or it's unclear, please ask me to repeat it or rephrase it; and I'll be happy to do so. All right A. Yes. Q. Dr. Casa, let me ask you just a little bit about your background. So if you are a professor, where are you a |
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05/25/2017 Douglas Casa, Ph.D.

Page 8 Page 6 A. So I have my bachelor's degree from Allegheny practice and what you can do. College in Pennsylvania. 2 A. Yeah. I have my master's degree from University of Q. So is it more like a first responder, like a 3 3 paramedic that may show up if an ambulance is called? 4 Florida. 5 And I have my Ph.D. from University of 5 A. No, no. So an athletic trainer is there all the 6 Connecticut. 6 time. So like they would be there at the high school 7 Q. So as a Ph.D., you are a doctor of philosophy? 7 8 8 doing lots of things to prevent the condition from Q. All right. And not a medical doctor? 9 happening in the first place. So they might modify work-to-rest ratios. They might modify the intensity of 10 A. That is correct. 10 a workout, or the time of day, or conditioning that's 11 Q. As part of your work, do you see and treat 11 done, or stretching or strengthening -- anything that patients here at the University of Connecticut? A. I don't treat patients at the University of could optimize health and safety prevention-wise. 13 13 14 Connecticut. 14 Then they're there to try to recognize conditions But I'm also a licensed athletic trainer in the at the earliest possible point to maybe prevent them 15 15 16 states of New York and Connecticut. So I do work 16 from becoming more severe. medical -- or I work events where medical care is 17 17 Then if a severe thing does happen, they're there needed -- so, for instance, like the Boston Marathon or 18 to treat it -- or any kind of conditions they're there New York City Marathon or other large-scale events like 19 to treat. But obviously, the severe ones are the most that where I work to take care of people who have 20 20 important. And then they do rehabilitation for these people. 21 medical conditions. 21 22 Q. What percentage of your work is spent serving as 22 So physical therapy people would need. a licensed athletic trainer? But then they also do return-to-play issues to 23 A. I'd say about five percent. 24 help that person get back to either military duty or Q. And explain for me then with that license, what 25 their job or their sport setting. 25 Page 7 does that enable to you do in regards to the field of Q. So if we focus on the aspect of the treatment. practicing any type of medicine or rendering treatment? If, for example, you were at a sporting event, somebody A. Yes. So an athletic trainer is a licensed suffers a heated-related episode; you may provide some 3 medical professional who deals with the prevention, type of first aid or treatment on site? 5 recognition, treatment, and return-to-play 5 A. Yes. considerations for the physically active. Q. And then I'm trying to determine how far does 6 So they traditionally work in, you know, high 7 your licensing or expertise carry you? 8 school, college, professional sports settings. They 8 In other words, if a paramedic shows up with an work a lot in the military. ambulance, do you then defer the treatment of that 9 9 10 So they're very much focused on medical issues 10 patient at the scene to the paramedics once they arrive? that are relevant to the physically active. 11 A. So that's a great question. So it would be 12 Q. At the -- typically at the scene of whatever the 12 dependent on the setting. event is? You mentioned Boston Marathon, for example? 13 13 So if you were working at, like, a Falmouth Road 14 A. I mean, it depends. Like, you could -- I mean, race like every August they have in Cape Cod, 14 there's athletic trainers for every NFL team, every high Massachusetts; the setup they have there is they have 15 school team, every college team. 16 athletic trainers and physicians on site. 17 Or special forces, like, in the military have 17 And they take care of the heat strokes -- and we 18 athletic trainers. 18 average, like, 20 heat strokes a year there -- they take 19 So yeah, they're usually present to try to 19 care of the heat strokes on site completely. optimize health and safety for the population they're 20 And then only if it's some other mitigating circumstance would the EMT-EMS take over and take them 21 21 22 Q. I'm just trying to get an understanding, because 22 to the hospital. 23 I'm not you --23 In a high school/college setting it depends on 24 A. Yeah. 24 what policies you have in place. So a lot of the

Q. -- and sort of have you explain to me your

advanced colleges and high schools have something called

```
Page 10
                                                                                                                      Page 12
 1 cool first, transport second.
                                                                           And I'd say about 20 percent of my time is, like,
                                                                1
           So the athletic trainer would be a hundred
                                                                    leadership and service.
   percent in charge of care for the heat stroke until the
                                                                       Q. What's "leadership and service"?
                                                                3
                                                                       A. Meaning like the Korey Stringer Institute, I'm
    person's temperature is back down to 102 or 3. And then
                                                                4
   the EMT's-EMS's would then take the patient to the
                                                                    the CEO of. So like having to run that organization.
    hospital.
                                                                    Or service could be like committees or department -- you
 7
                                                                    know, school-wide university committees I have to serve
           So it just depends on the setting and the
                                                                7
    policies that you have in place.
                                                                8
8
            (Off the record.)
                                                                9
                                                                       Q. With the Korey Stringer Institute, you said
10
   BY MR. SCHMITT:
                                                               10
                                                                    you're the CEO?
11
       Q. In a typical setting when a patient suffers a
                                                               11
                                                                       A. Yes.
  heat-related illness and there is EMT or emergency
                                                               12
                                                                       O. What does it do?
   medical service personal that arrive, in that type of
                                                                       A. Yes. So the Korey Stringer Institute is a
13
                                                               13
    setting then would you typically defer the treatment at
                                                                    not-for-profit that's focused on promoting health and
15
   that point to that individual?
                                                               15
                                                                    safety for the athlete or fighter and laborer.
16
       A. Like I said, it really depends on the policies,
                                                               16
                                                                           And we have 80 people who work at the Korey
17
    because we've -- for colleges and pro teams and high
                                                               17
                                                                    Stringer Institute. It's about 60 volunteers and about
18
    schools, if they have the right policies in place, even
                                                               18
                                                                    20 staff. And we have, you know, extensive research and
    if the ambulance arrives, the athletic trainer would
                                                               19
                                                                    educational issues that we do.
    still be in charge until the person's temperature is
                                                               2.0
                                                                           We work with all branches of the military. We
20
21
    under the dangerous threshold; and then they send them.
                                                                    work closely with different groups that oversee laborer
                                                               2.1
22
           Because you don't ever want to send someone in an
                                                               22
                                                                    health and safety. We deal with all 50 states for their
    ambulance while they're still 106 degrees if they're
                                                                    high school athletic policies. We work with a lot of
   being cooled properly on site, because the key to
                                                               24
                                                                    professional sport leagues and teams.
   surviving a heat stroke is minimizing the number of
                                                               25
                                                                           So we have a pretty far reach.
                                                       Page 11
                                                                                                                      Page 13
    minutes they're hyperthermic.
                                                                       Q. And is that located here at the University of
           So it really depends on the setting. If you're
                                                                    Connecticut?
    at a youth soccer game and you don't have appropriate
                                                                3
                                                                       A. Yes.
3
    cooling strategies on site and an ambulance arrives, you
                                                                4
                                                                       Q. All right. I'm handing you what's been marked as
 5
    would immediately send that person to a hospital.
                                                                5
                                                                    Exhibit No. 151. Is that at least part of your CV that
           So if you don't have medical care there and the
                                                                    you brought with you here today?
6
    EMT-EMS arrives; they would immediately try to,
                                                                7
                                                                       A. Yes. So this is my first 40 pages of my CV
8
    obviously, get them to advanced care.
                                                                8
                                                                    because I updated references yesterday from recent
9
       Q. Is this license as a licensed athletic trainer,
                                                                9
                                                                    research articles so I wanted to make sure that they
10
    is that something that's recognized in all states; or
                                                               10
                                                                    were included for the record.
    just certain states have it?
                                                               11
                                                                           And then I'll send a PDF of the complete CV.
12
       A. That's a great question. So 49 of the 50 states
                                                               12
                                                                       Q. All right.
                                                               13
13
   recognize licensure for athletic training.
                                                                           MR. COX: Dave, it's Jim. Let me interrupt.
14
           So California, it's reached the Governor's desk,
                                                               14
                                                                           Because I've marked another couple of
   like, eight times in the last 30 years; and for whatever
                                                                       exhibits in a motion I'm filing, would you mind
                                                               15
   reason they don't want to pay for the person to oversee
                                                               16
                                                                       jumping up to about 160 with your next exhibit.
17
    the licensing board there.
                                                               17
                                                                           MR. SCHMITT: So is 161 okay?
       Q. All right. So five percent of your time as a
                                                               18
                                                                           MR. COX: Yes, 161 is great.
18
19
   licensed athletic trainer.
                                                               19
                                                                           (Off the record.)
20
           The other 95 percentage of your time is spent --
                                                               20
                                                                           (Defendant's Exhibit 161, Curriculum Vitae,
                                                               21
                                                                       marked for identification.)
21
   Just break it down for me.
22
       A. Sure, yes. I'd say about 50 percent of my time
                                                               22
                                                                           MR. SCHMITT: All right. We can go back on.
23
                                                               23
                                                                           For purposes of our record we renumbered the
   is research.
                                                                       CV that had been initially identified as now it
           I would say about 25 percent of my time is
                                                               24
    teaching.
                                                                       will be Exhibit No. 161.
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Page 14 Page 16 1 BY MR. SCHMITT: clinical management of heat stroke, I'd say would be the Q. And Doctor, you were indicating that then what most relevant. you'll do is after the deposition, you'll send a PDF of 3 Q. Where the "term heat" stroke might appear in your entire CV to both Jim Cox and myself? 4 5 A. Heat stroke doesn't always appear in the title if Q. And the only part that's missing out of it's something that looks at exercise heat tolerance. Exhibit No. 161 was primarily your publications and 7 Things that look at exercise heat tolerance could 8 things of that nature? be things that we looked at hydration studies, body 8 A. Well, I updated the publications. So I wanted to 9 cooling, heat acclimatization. make sure you had the current ones while we were sitting 10 (Off the record.) here today. 11 THE WITNESS: You know, clothing, equipment, 12 Q. All right. 12 those kinds of studies. A. Nothing had been changed in the next 60 pages, so BY MR. SCHMITT: 13 13 I just didn't print those. Q. All right. And, of course, Mr. Herrera has a Q. All right. In regards to your publications, just heat-related illness issue in this case. 15 15 16 looking at this in general, the names and publications, But other than just simply dealing with heat 16 17 you can see there's typically multiple names in any 17 stroke or heat intolerance, are there any publications given publication; true? 18 dealing -- where if you had to single something out that 19 A. Yes. 19 would really be focused on issues in this case? 20 Q. All right. And the names are ordered. Sometimes 20 For example, in a railroad setting -- I mean, 21 your name may be first, sometimes it's in the middle, you're familiar with the issues in this case. Is there 21 sometimes at the end; true? 22 some that you would consider to be particularly pointed? A. That's a good question. I don't have any A. Yes. 23 Q. Am I correct that any time -- that the first 24 publications specific to, like, the train industry, for named individual in any publication is typically the 25 instance. Page 15 Page 17 1 primary author? I do have a book coming out -- well, I have two A. Yes. books coming out that are not in there because they're Q. And then after that if, for example, you as a not out yet, obviously. 3 professor are overseeing the student that might be 4 One is Maximizing Health and Safety During writing this article, then your name would appear to be 5 Exercise in the Heat, and it has sections related to also given credit recognition as the supervising -laborers. A. Yeah, I'd either usually be second or last is 7 And then next winter we have another book coming 8 usually tradition in the field. 8 out that's very specific to a laborer, that we've joined Q. And is it true most of these publications that we forces with OSHA and NIOSH, NOAA, and some other 9 10 see here are they -- many of them your students that are 10 governmental organizations to try to bring together some working on their Ph.D.'s? of the knowledge we have in sports medicine to try and 12 A. Yeah. They're all my projects; but they're 12 carry it over a little more into the laborer workforce. writing the publications, yes. 13 13 Q. Those publications have not yet gone to press? 14 Q. All right. Is there any publication -- I know A. The first one is really close. It's coming out, 14 this Exhibit 161 you said was updated with current like, this summer, that I mentioned. publications. 16 Q. What's its title? 17 17 Is there anything that would be specifically A. I knew you were going to ask that. I honestly focused or you believe particularly relevant to 18 don't have it memorized. 18 19 Mr. Herrera's case? 19 It's Maximizing Health and Safety for the A. I mean, there's a lot of publications related to 20 Physically Active During Exercise in the Heat. heat stroke in there. Don't hold me accountable to the exact words; but 21 21 22 Q. Right. 22 that's the theme. A. So those would be the most relevant or anything 23 Q. Who's the publisher? 23

24

A. Springer. It's out of New York.

I think officially it's coming out in September

related to -- you know, all the studies that we looked

at that assess exercise heat tolerance or deal with the

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Page 18 Page 20 1 or October. Q. What other type of consulting? 1 2 A. Like if I go assist a company or give a talk or O. And was that in collaboration with other --A. I'm the only editor of the book. But there's 19 provide advice to an organization or -- so, like, Nike chapters in the book. And then I got a leading person or Gatorade, for instance, might ask my advice on 4 in the world to write the chapters. something; and I'll be paid for that. Q. To actually write them? 6 Or I go give a talk, it would be consulting A. Yes. 7 because I might get an honorarium. Q. And who was that? 8 Q. On litigation-related matters where you're A. Oh, I had 19 different people. 9 actually serving as an expert witness, what percentage 10 Q. Oh, I see. 10 of your work or time is spent with that? 11 A. Yeah. So each chapter -- like, you know, there's 11 A. If I said -- my total time of all my work I do, a chapter on military, there's a chapter on laborers, if I said 10 percent is consulting, I'd probably say 7 12 there's a chapter on athletics, a chapter on hydration; or 8 percent of my total time is an expert witness. 13 13 things like that. 14 Q. And how many of those cases have been --Well, how many cases have you served as a 15 Q. Understood. And you were the editor of the book? 15 16 litigation expert in your career? 16 Q. All right. And then that second publication is 17 17 A. So that's good. I brought this just to try and 18 coming out when? 18 be helpful. A. I guess March-April of '18. 19 This is prior experience as an expert. And it's 2.0 Q. And the name? updated to, I think, this case. But I also -- at the 20 21 A. That is -- Do you want me to look it up? I can end there's other cases that are just in the mix right 21 22 tell you. 22 now. So I just put placeholders there for names. And Q. If you can do it quickly, that's fine. then there's other ones that have, you know -- just A. Yes, I can do it quick, I think. 24 getting started. 25 It's titled Human Health and Physical Activity in 25 Q. Okay. Page 19 Page 21 1 the Heat. MR. SCHMITT: We'll mark this as Exhibit No. 1 And just to give you a feel of the contents, like 2 164. there's a chapter -- a military chapter, an OSHA 3 (Defendant's Exhibit 164, Prior Experience 3 chapter, NIOSH chapter, NOAA -- which is -- you know, 4 as an Expert marked for identification.) deals with weather stuff; things like that. 5 THE WITNESS: So to answer your question, I Q. And what was your contribution for that work? think I've been involved in the ballpark of 40 6 A. I'm a co-editor on that book. I'm an editor with to 42 cases thus far. 8 BY MR. SCHMITT: 8 another person. ${\tt Q}.\;\;$ And the actual content was then written by 9 9 Q. All right. 10 10 A. They're not complete descriptions of all of them A. Yeah. I mean, I'm author on a couple of the because the last, like, five to seven; like, those have 11 chapters in there. But, yeah, there's a lot of other 12 just been people in the last few months that have called people involved. me. Those are, like, in the mix right now. 13 13 14 Q. So primarily you're a co-editor of that 14 Q. Items 28 through 33 -publication? 15 A. Are in the mix. 16 A. Yeah. 16 But then there's still, like, another seven for 17 Q. All right. What percentage of your practice is people who have reached out in the last few months where 17 spent on litigation-related matters? I've never even received materials yet or I'm not 18 18 19 A. Well, it's not part of my job at all at 19 involved yet. But they just asked for my assistance. 20 University of Connecticut. I'm allowed a certain amount Q. I note that Item No. 20 is the Jared Whitt versus of consulting time. 21 21 Union Pacific Railroad Company case. 22 But my total, like, life work that do I would 22 A. Yes. probably say 5 to 10 -- I'd say 10 percent is consulting 23 Q. And that was a case that the same lawyer, Jim 23

24

Cox, was involved in?

A. Yes.

if all -- if I encapsulate all consulting; because I do

consulting beyond just being an expert witness.

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|------|--|----|--|
| | Page 22 | | Page 24 |
| 1 | Q. All right. Other than the Jared Whitt case and | 1 | that have been defense. And, I think for some of them |
| 2 | then the present case, have you had any other cases with | 2 | it's been wanting to know quickly if it's worth |
| 3 | Mr. Cox or another attorney from his office? | 3 | investing to, like, push through or maybe just settle |
| 4 | A. Can I look at that? | 4 | this quickly; it might be just a better use of |
| 5 | Q. Sure. | 5 | resources. |
| 6 | A. I don't have it memorized. I don't want to give | 6 | Q. How many cases in your career where you've served |
| 7 | a wrong answer. | 7 | as a litigation expert involved the railroad industry? |
| 8 | So I believe that the current case is the second | 8 | Are they typically identified here in the |
| 9 | case I've been working with Mr. Cox. | 9 | description if it involved a railroad? |
| 10 | MR. COX: Dave, that's correct. | 10 | A. I'll give you the super quick count. I think |
| 11 | MR. SCHMITT: Okay. | 11 | it's about seven or eight. I'll tell you right now. |
| 12 | BY MR. SCHMITT: | 12 | (Pause.) |
| 13 | Q. Of the cases where you've served as a litigation | 13 | So I'll give you a number so you can just make a |
| 14 | expert, what percent have been on behalf of the | 14 | note. |
| 15 | Plaintiff versus the Defendant? | 15 | Q. Sure. |
| 16 | A. If we used 40 as the anchor, I would say 34 or 5 | 16 | A. No. 7, Nos. 8, 11, 19, 20, 26, 27, 28. |
| 17 | have been for the Plaintiff and 5 or 6 that's just an | 17 | I'm not a hundred percent sure on these. I have |
| 18 | estimate right now for the defense. | 18 | to check. But of the ones listed in depth, those are |
| 19 | Q. Okay. And of those defense cases | 19 | those are helpful. |
| 20 | A. Can I make one note, also? | 20 | What was the total count there? |
| 21 | Q. Sure. | 21 | Q. Eight. |
| 22 | A. I just want to make point one thing out. | 22 | A. Yeah, there you go. |
| 23 | What I have listed here are cases I assisted with | 23 | Q. And just for the record, the ones that you said |
| 24 | that reached the level of me doing an opinion; so either | 24 | you weren't sure on are these last ones Items 28 |
| 25 | an opinion, deposition, testifying at trial. | 25 | through 33 where it's just a name |
| 1 | Page 23 There are many, many other cases where people | 1 | Page 25 A. 28 I am sure of. |
| 2 | call me up; I have a three or four-hour conversation | 2 | 0. Oh. |
| 3 | with them; and I might recommend to them not to pursue | 3 | A. I gave that as a number. |
| 4 | it or I might recommend to them to settle it because | 4 | But I'm not a hundred percent sure actually, |
| 5 | it's unwinnable based on the evidence. | 5 | let me tell you. (Pause.) |
| 6 | So I don't include those all here because I just | 6 | I'm only not sure on 30. But the others are all |
| 7 | don't have enough to keep track of all of those. | 7 | athletics. |
| 8 | So there's many times people will call me up. | 8 | Q. Item 28, railroad case, is that on behalf of the |
| 9 | And I'll give a block of time. And it never even | 9 | Plaintiff or Defendant? |
| 10 | becomes a case because they'll just, you know, deal with | 10 | A. Plaintiff. |
| 11 | it they'll either not take the case or they'll settle | 11 | Q. Okay. Item 27, of course, is the present case. |
| 12 | it very quickly before anybody does depositions or | 12 | That's for Plaintiff. |
| 13 | opinions. | 13 | 26 is Plaintiff, 20 is Plaintiff. |
| 14 | I just wanted to make you aware of that. | 14 | Now, you said 19 although that was a prisoner |
| 15 | Q. All right. And | 15 | case |
| 16 | A. So those are, like, my formal ones I formally | 16 | A. I apologize. Wrong number. Yeah, I shouldn't |
| 17 | have been involved with. | 17 | have said that one. It was another it was |
| 18 | Q. When you're called to evaluate a case and whether | 18 | industrial, but it's not |
| 19 | or not for example, you said to take a case or to get | 19 | Q. You identified No. 11. But that says it's a |
| 20 | rid of it, are they typically on behalf of the | 20 | Workman Comp case, and it doesn't mention anything about |
| 21 | Plaintiffs or the Defendants? | 21 | railroad. |
| 22 | A. It's honestly, I'd say more times it's | 22 | A. Yeah. It was connected with a railroad case. It |
| 23 | Plaintiff. I would say probably 75 to 80 percent of the | 23 | was someone loading trucks from a train to a truck and |
| 24 | time it's Plaintiffs. | 24 | things like that, so but that was for the defense. |
| 25 | But I've had more in the last four or five years | 25 | Q. But there was not a railroad as a Defendant? |
| 1 | | 1 | |

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Page 26 Page 28 A. That's correct. It was actually like one of 1 A. Yes. 2 those private companies that oversee the cases. Q. Is that a fair statement? Q. Okay. It looks like 8 was for the Plaintiff. A. (Nodded head affirmatively.) 3 3 4 A. Uh-huh. 4 MR. COX: Foundation. O. And 7 was for the --BY MR. SCHMITT: 5 A. Plaintiff. Q. So in regards, Doctor, to what happened in the Q. -- Plaintiff? Whitt case versus Union Pacific Railroad Company, I A. Yes. 8 understand you made allegations or assertions in regards Q. All right. So any cases where you've been 9 to your opinions. involved in where the railroad has actually been named a 10 But ultimately whatever opinions that you 11 party, all of those cases have been on behalf of the 11 rendered in that case, are they separate and distinct 12 Plaintiff? from opinions that you're rendering here in this case 12 13 A. Yes. 13 here today? 14 Q. All right. Now, in regards to the Jared Whitt 14 A. Yes, so much so I don't remember the details, case that you were hired by Mr. Cox in the past, of 15 15 honestly, of that. I focused very much on this case. 16 course, that case went to litigation. You gave a To be honest, the only thing that I remembered, I 16 17 deposition? 17 recognized a name or two was similar between the two 18 A. Yes. 18 cases when I read depositions. But I honestly didn't --Q. I did have an opportunity to take your deposition 19 that was back in 2013, I think, when I might have done 2.0 in that case. the report for that case. So I didn't get involved with 20 21 A. Yes. that one again. 21 22 Q. Without going through that deposition here today 22 Q. All right. In regards to the discussion that we in its entirety, Doctor, let me just ask you this had on the medical issues -- heat stroke versus heat exhaustion, treatment protocols, things like that -- the question: In regards to any of the questions that you 24 were asked at the time, were the answers that you gave, 25 deposition -- let me just take a look -- it was from, Page 27 Page 29 would they have been accurate and truthful? actually, 2014 -- February of 2014. A. Yes. 2 A. Okay. Q. All right. Let me just ask, did you happen to Q. So about three years ago. Am I able to rely on 3 3 read that deposition in preparation for today's those answers today as being, again, the manner in which 5 deposition? you would hold your opinions in regards to these heat-exertional-related-illness issues? 6 A. I did not. Q. Sure, that's fine. A. Yes. I mean, I'm sure we could review the top 8 A. Sure. 8 line items. But I don't believe anything's changed Q. You understand that the Jared Whitt case, that since then in terms of my viewpoints. 9 was a separate litigation unrelated to this present 10 Q. In regards to your railroad work -- so you have litigation involving Mr. Herrera? served as a litigation expert in railroad cases. Have 12 A. Yes. 12 you ever been employed by any railroad? Q. And that Union Pacific Railroad denied those 13 13 A. No. 14 allegations that were alleged by Mr. Whitt in that case? Q. All right. Have you ever inspected the scene of 14 A. I don't know those details. where Mr. Herrera's incident occurred in Kansas? A. No. 16 Q. Sure. 16 17 Q. Have you ever been present when a steel gang or a A. All right. 17 Q. Certainly I can represent to you that the 18 surfacing gang is working? 18 19 allegations were contested, and there was a dispute. 19 A. No. 20 Q. Have you ever operated or even been on any types of the equipment that a steel gang may use like a P car 21 Q. Is it fair to say that in probably all cases where you've given a deposition that the reason you're 22 or things like that?

23

24

A. No.

based on your prior answers.

Q. All right. I think I know the answer already

23

giving a deposition is that there were allegations that

were made, and there were allegations that were being

defended and disputed by the other party?

| 2 heat exertion, have you ever served in an emergency room 3 setting where you've worked as an emergency room 4 provider? 5 A. No. 6 Q. All right. What do you charge for your 7 litigation services to serve as an expert witness? 8 A. S400 an hour. 9 Q. And is that the same rate whether you're 10 reviewing the case 11 A. (Nodded head affirmatively.) 12 Q giving a deposition, or testifying at trial? 13 A. Yeah, \$400 for any time related to the case. 14 Q. And if you are asked to appear at the trial of 15 this case in Omaha, Nebraska if you're asked by 16 Mr. Cox - will you appear? 17 A. Yes. I mean, obviously, if I have enough 18 warning, I will make an effort to obviously appear, 19 yeah. 10 Q. Warning" meaning scheduling issues? 21 A. Yes, yes. 22 Q. Sure. And do you have a day rate then if, for 23 example, you travel to Omaha on what you would be 24 charging to appear? 25 A. I usually just charge \$400 an hour if I'm doing 1 something related to the case. 16 I'm reviewing for the case, if I'm driving to the 2 court room, if I'm waiting to testify; that would be 3 related to the case. 2 If I'm pust sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get amy portion of that or 16 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yesh. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 Asyou may remer | it. Tim, I'm giving him the bill. s all right. I'm giving him the bill from submitted to you. Okay? |
|---|--|
| 2 heat exertion, have you ever served in an emergency room 3 setting where you've worked as an emergency room 4 provider? 5 A. No. 6 Q. All right. What do you charge for your 7 litigation services to serve as an expert witness? 8 A. S400 an hour. 9 Q. And is that the same rate whether you're 10 reviewing the case 11 A. (Nodded head affirmatively.) 12 Q giving a deposition, or testifying at trial? 13 A. Yeah, \$400 for any time related to the case. 14 Q. And if you are asked to appear at the trial of 15 this case in Omaha, Nebraska if you're asked by 16 Mr. Cox - will you appear? 17 A. Yes. I mean, obviously, if I have enough 18 warning, I will make an effort to obviously appear, 19 yeah. 10 Q. Warning" meaning scheduling issues? 21 A. Yes, yes. 22 Q. Sure. And do you have a day rate then if, for 23 example, you travel to Omaha on what you would be 24 charging to appear? 25 A. I usually just charge \$400 an hour if I'm doing 1 something related to the case. 16 I'm reviewing for the case, if I'm driving to the 2 court room, if I'm waiting to testify; that would be 3 related to the case. 2 If I'm pust sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get amy portion of that or 16 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yesh. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 Asyou may remer | at. Tim, I'm giving him the bill. s all right. I'm giving him the bill from submitted to you. Okay? and then I also kept track of |
| setting where you've worked as an emergency room 4 provider? 5 A. No. 6 Q. All right. What do you change for your 7 litigation services to serve as an expert witness? 8 A. \$400 an hour. 9 Q. And is that the same rate whether you're 10 Q giving a deposition, or testifying at trial? 11 A. (Nodded head affirmatively.) 12 Q giving a deposition, or testifying at trial? 13 A. Yesh, \$400 for any time related to the case. 14 Q. And if you are asked to appear at the trial of 15 this case in Omaha, Nebraska if you're asked by 16 Mr. Cox will you appear? 17 A. Yes. I mean, doviously, if I have enough 18 warning, I will make an effort to obviously appear, 19 yesh. 20 Q. "Warning" meaning scheduling issues? 21 A. Yes, yes. 22 Q. Sure. And do you have a day rate then if, for 23 example, you travel to Omaha or what you would be 24 charging to appear? 25 A. I usually just charge \$400 an hour if I'm doing 2 something related to the case. 2 So the travel time, I would say, yes. But if I'm 3 then working in my hotel room, I wouldn't charge for that time. 5 So anything I'm just doing related to the case. 6 If I'm reviexing for the case, if I'm driving to the 7 court room, if I'm waiting to teetify; that would be 8 related to the case. 9 If I'm reviexing for the case, if I'm driving to the 7 court room, if I'm waiting to teetify; that would be 8 related to the case. 9 If I'm pust sitting working on my University of 10 connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yesh, Thave to get consulting approval from 22 University of Connecticut for any consulting approval from 22 University of Connecticut for any consulting approval | it. Fim, I'm giving him the bill. s all right. I'm giving him the bill from submitted to you. Okay? and then I also kept track of |
| 4 Provider? 5 A. No. 6 Q. All right. What do you charge for your 6 A. No. 7 RE MITNESS: I' 8 A. \$400 an hour. 9 Q. And is that the same rate whether you're 10 reviewing the case 11 A. (Nodded head affirmatively.) 11 A. (Nodded head affirmatively.) 12 Q giving a deposition, or testifying at trial? 13 A. Yesh, \$400 for any time related to the case. 14 Q. And if you are asked to appear at the trial of this case in Omaha, Nebraska if you're asked by 16 Whr. Cox will you appear? 17 A. Yes. I mean, obviously, if I have enough 18 warning, I will make an effort to obviously appear, 19 yesh. 20 Q. "Warning" meaning scheduling issues? 21 A. Yes, yes. 22 Q. Sure. And do you have a day rate then if, for example, you travel to omaha on what you would be charging to appear? 25 A. I usually just charge \$400 an hour if I'm doing 26 charging in my hotel room, I wouldn't charge for that time. 27 So anything I'm just doing related to the case. 28 So the travel time, I would say, yes. But if I'm as something related to the case, if I'm driving to the court room, if I'm waiting to testify; that would be related to the case, if I'm driving to the related to the case, if I'm dr | Fim, I'm giving him the bill. s all right. 'm giving him the bill from submitted to you. Okay? and then I also kept track of |
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| 18 warning, I will make an effort to obviously appear, 19 yeah. 20 Q. "Warning" meaning scheduling issues? 21 A. Yes, yes. 22 Q. Sure. And do you have a day rate then if, for 23 example, you travel to Omaha on what you would be 24 charging to appear? 25 A. I usually just charge \$400 an hour if I'm doing 1 something related to the case. 2 So the travel time, I would say, yes. But if I'm 3 then working in my hotel room, I wouldn't charge for 4 that time. 5 So anything I'm just doing related to the case. 6 If I'm reviewing for the case, if I'm driving to the 7 court room, if I'm waiting to testify; that would be 8 related to the case. 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 A. Yes. 24 A. That was to do to August. 25 A. That was to do to August. 26 Q. And "the opinior resulted in your expert resoluted in your expert meaning the solute in your expert from the case. 4 D. A. Yes. 5 Q. And That would be true of any even consulting 4 A. Yes. 6 If I'm reviewing for the case, if I'm driving to the case. 7 Q. And that expert 8 Q. So since that the paid of the case. 9 If I'm just sitting working on my University of A. Yes. 11 Q. What additional 12 A. Twenty hours sin this depo time 14 A. Yes. 16 Q. Of those 20 addity your expert report up to you do? 17 your expert report up to your work that you do? 18 A. I was just revie case, things that were deposition. 29 | re marking as Exhibit 165. And |
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| A. Yes, yes. Q. Sure. And do you have a day rate then if, for example, you travel to Omaha on what you would be charging to appear? A. I usually just charge \$400 an hour if I'm doing something related to the case. So the travel time, I would say, yes. But if I'm than working in my hotel room, I wouldn't charge for that time. So anything I'm just doing related to the case. If I'm reviewing for the case, if I'm driving to the court room, if I'm waiting to testify; that would be related to the case. If I'm just sitting working on my University of Connecticut stuff, I don't charge for that. Q. All right. In regards to your work at the University of Connecticut, of course, you would be paid Dy the university for your work that you do for it? A. Yes. Q. Mad that expert BY MR. SCHMITT: Q. And that expert Connecticut stuff, I don't charge for that. Q. All right. In regards to your work at the University of Connecticut, of course, you would be paid Dy the university for your work that you do for it? A. Yes. Q. Okay. L. West work A. Test was to do to appear. A. Yes. A. Yes. A. Yes. Q. And that was to do to appear to a puge. A. Yes. A. Yes. Defendant's Ext Expert Report marked BY MR. SCHMITT: A. Yes. Q. And that expert Connecticut stuff, I don't charge for that. A. Yes. Q. So since that time A. Yes. A. Yes. Q. What additional A. Twenty hours sin this depo time 14 A. Yes. Q. Okay. A like I'm sitt Q. What additional This depo time 15 A. Test was just review A. It goes to me. Q. And that would be true of any even consulting A. I was just review Case, things that were | |
| Q. Sure. And do you have a day rate then if, for example, you travel to Omaha on what you would be charging to appear? A. I usually just charge \$400 an hour if I'm doing charge in your expert 25 a. I usually just charge \$400 an hour if I'm doing charge in your expert 25 a. I usually just charge \$400 an hour if I'm doing charge in your expert 26 a. I usually just charge \$400 an hour if I'm doing charge in your expert 27 a. I usually just charge \$400 an hour if I'm doing charge in your expert 28 a. I usually just charge \$400 an hour if I'm doing charge in your expert 29 and that time. Page 31 charge in your expert 29 and if I'm charge for chart time. So anything I'm just doing related to the case. So anything I'm just doing related to the case. If I'm reviewing for the case, if I'm driving to the court room, if I'm waiting to testify; that would be related to the case. If I'm just sitting working on my University of connecticut stuff, I don't charge for that. Q. All right. In regards to your work at the luniversity of Connecticut, of course, you would be paid luniversity of Connecticut, of course, you would be paid luniversity of Connecticut, of course, you would be paid luniversity of Connecticut get any portion of that or look it all just go to your litigation work, does luniversity of Connecticut get any portion of that or look it all just go to your? A. It goes to me. Q. And that would be true of any even consulting luniversity of case, things that were deposition. Liviersity of Connecticut for any consulting approval from case, things that were deposition. | the opinion that I submitted in |
| example, you travel to Omaha on what you would be 2 charging to appear? 2 h. I usually just charge \$400 an hour if I'm doing Page 31 something related to the case. So the travel time, I would say, yes. But if I'm that time. So anything I'm just doing related to the case. If I'm reviewing for the case, if I'm driving to the related to the case. If I'm waiting to testify; that would be related to the case. If I'm just sitting working on my University of Connecticut stuff, I don't charge for that. Q. All right. In regards to your work at the University of Connecticut, of course, you would be paid A. Yes. Q. In regards to your litigation work, does If University of Connecticut get any portion of that or does it all just go to you? A. It goes to me. Q. And that would be true of any even consulting a. Yea, A you may remer 23 Q. And "the opinior 24 resulted in your expert 25 /// Page 31 A. Yes. A. Yes. D. A. Yes. Expert Report market A. Yes. BY MR. SCHMITT: Q. And that expert A. Yes. A. Twenty hours sin This depo time 14 Q. Okay. A like I'm sitt Q. Of those 20 addi your expert report up to your work that you do? A. It goes to me. Q. And that would be true of any even consulting A. I was just review case, things that were deposition. A. You may remer | |
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| Page 31 1 something related to the case. 2 So the travel time, I would say, yes. But if I'm 3 then working in my hotel room, I wouldn't charge for 4 that time. 5 So anything I'm just doing related to the case. 6 If I'm reviewing for the case, if I'm driving to the 7 court room, if I'm waiting to testify; that would be 8 related to the case. 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 25 /// 26 A. A. Yes. 27 A. Yes. 28 A. Yes. 39 Work? 4 BY MR. XCHMITT: 4 A. Yes. 4 BY MR. SCHMITT: 5 Q. And that expert 6 163. It's dated August 7 A. Yes. 9 work? 10 A. Yes. 11 Q. What additional 12 D. What additional 12 A. Twenty hours sin 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. Okay. 16 Q. Okay. 17 your expert report up to your work that you do? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 As you may remended. 23 A. Yeah. I have to get consulting work I do. 24 As you may remended. 25 A. Yeah. | * * |
| Page 31 1 something related to the case. 2 So the travel time, I would say, yes. But if I'm 3 then working in my hotel room, I wouldn't charge for 4 that time. 5 So anything I'm just doing related to the case. 6 If I'm reviewing for the case, if I'm driving to the 7 court room, if I'm waiting to testify; that would be 8 related to the case. 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 21 A. Yes. 22 Defendant's Ext 24 Defendant's Ext 25 Q. Defendant's Ext 26 Expert Report marked 4 BY MR. SCHMITT: 5 Q. And that expert 6 163. It's dated August 7 A. Yes. 9 work? 10 A. Yes. 11 Q. What additional 12 A. Twenty hours sin 13 this depo time 14 A. Yes. 14 Q. Okay. 15 A like I'm sitt 16 Q. Of those 20 addit 17 your expert report up to you do? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 As you may rement | 4 |
| 1 Something related to the case. 2 So the travel time, I would say, yes. But if I'm 3 then working in my hotel room, I wouldn't charge for 4 that time. 5 So anything I'm just doing related to the case. 6 If I'm reviewing for the case, if I'm driving to the 7 court room, if I'm waiting to testify; that would be 8 related to the case. 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 As you may rement | |
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| then working in my hotel room, I wouldn't charge for that time. So anything I'm just doing related to the case. If I'm reviewing for the case, if I'm driving to the court room, if I'm waiting to testify; that would be related to the case. If I'm just sitting working on my University of Connecticut stuff, I don't charge for that. Q. All right. In regards to your work at the University of Connecticut, of course, you would be paid by the university for your work that you do for it? A. Yes. Q. What additional A. Twenty hours sin this depo time A. Yes. Q. Okay. In regards to your litigation work, does University of Connecticut get any portion of that or A. It goes to me. Q. And that would be true of any even consulting work I does it all just go to you? A. I was just review case, things that were A. Yeah. I have to get consulting approval from University of Connecticut for any consulting work I do. A. Yeah. I have to get consulting work I do. A. Expert Report marked A. BY MR. SCHMITT: A. BY MR. SCHMITT: A. BY MR. SCHMITT: A. BY MR. SCHMITT: A. Pes. A. Yes. A. Twenty hours sin This depo time A. Twenty hours sin A. Twenty hours sin This depo time A. Twenty hours sin A. Thenty hours sin A. Twenty hours sin | hibit 163, August 11, 2016, |
| 4 that time. 5 So anything I'm just doing related to the case. 6 If I'm reviewing for the case, if I'm driving to the 7 court room, if I'm waiting to testify; that would be 8 related to the case. 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 11 Q. What additional 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 24 BY MR. SCHMITT: 5 Q. And that expert 6 163. It's dated August 7 A. Yes. 10 A. Yes. 10 A. Yes. 11 Q. What additional 12 Liting A. Yes. 11 Q. What additional 12 A. Twenty hours sin 13 this depo time 14 Q. Okay. 15 A like I'm sitt 16 Q. Of those 20 addit 17 your expert report up to the consulting approval from 18 you do? 19 A. I was just review and the consulting approval from 20 case, things that were 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 As you may remer | ed for identification.) |
| 6 If I'm reviewing for the case, if I'm driving to the 7 court room, if I'm waiting to testify; that would be 8 related to the case. 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 21 As you may rement | |
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| 7 court room, if I'm waiting to testify; that would be 8 related to the case. 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 11 Q. What additional 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 A. Yes. 26 Q. So since that the Q. Work? 27 A. Yes. 28 Q. So since that the Q. What additional 28 Q. What additional 29 What additional 20 A. Yes. 21 A. Yes. 22 A. Twenty hours since the paid of this deposition. 23 Okay. 24 Q. Okay. 25 A like I'm sitted of Q. Of those 20 additional 26 Q. Of those 20 additional 27 A. I was just review of the paid | - st 11, 2016? |
| 9 If I'm just sitting working on my University of 10 Connecticut stuff, I don't charge for that. 11 Q. All right. In regards to your work at the 11 Q. What additional 12 University of Connecticut, of course, you would be paid 13 by the university for your work that you do for it? 14 A. Yes. 15 Q. In regards to your litigation work, does 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 What additional 16 Q. What additional 17 A. Twenty hours sin 18 A. Twenty hours sin 19 A. I was just I'm sitt 19 A. I was just revie 20 case, things that were 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 As you may rement | |
| Connecticut stuff, I don't charge for that. Q. All right. In regards to your work at the University of Connecticut, of course, you would be paid by the university for your work that you do for it? A. Yes. Q. Okay. Q. In regards to your litigation work, does University of Connecticut get any portion of that or does it all just go to you? A. It goes to me. Q. And that would be true of any even consulting work that you do? A. Yeah. I have to get consulting approval from University of Connecticut for any consulting work I do. A. Yes. 10 A. Yes. 11 Q. What additional 12 A. Twenty hours sin this depo time 13 this depo time 14 Q. Okay. 15 A like I'm sitt Q. Of those 20 addi 17 your expert report up to you do? 18 A. I was just review case, things that were 20 A. Yeah. I have to get consulting approval from 21 A. Yeah you may rement | ime you've done some additional |
| Q. All right. In regards to your work at the University of Connecticut, of course, you would be paid by the university for your work that you do for it? A. Yes. Q. In regards to your litigation work, does University of Connecticut get any portion of that or does it all just go to you? A. It goes to me. Q. And that would be true of any even consulting work that you do? A. Yeah. I have to get consulting approval from University of Connecticut for any consulting work I do. 20 What additional 12 A. Twenty hours sir 13 this depo time 14 Q. Okay. 15 A like I'm sitt Q. Of those 20 addit Q. Of those 20 addit Pour expert report up to you do? 17 your expert report up to you do? 18 A. I was just review case, things that were 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. As you may rement | - |
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| A. Yes. Q. In regards to your litigation work, does 15 A like I'm sitt 16 University of Connecticut get any portion of that or 16 Q. Of those 20 addi 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 Okay. 15 A like I'm sitt Q. Of those 20 addi 17 your expert report up to 18 you do? 20 case, things that were 21 deposition. 22 As you may rement | nce August 26th, not inclusive of |
| Q. In regards to your litigation work, does 15 A like I'm sitt 16 University of Connecticut get any portion of that or 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 As you may rement | |
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| 17 does it all just go to you? 18 A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 As you may remen | ting here today. |
| A. It goes to me. 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 You do? 24 Case, things that were 25 deposition. 26 As you may remended. | ditional hours that you spent after |
| 19 Q. And that would be true of any even consulting 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 22 As you may remen | until today's deposition, what did |
| 20 work that you do? 21 A. Yeah. I have to get consulting approval from 22 University of Connecticut for any consulting work I do. 23 case, things that were 21 deposition. 22 As you may remem | |
| 21 A. Yeah. I have to get consulting approval from 21 deposition. 22 University of Connecticut for any consulting work I do. 22 As you may remem | ewing materials related to the |
| 22 University of Connecticut for any consulting work I do. 22 As you may remem | e sent to me, prepping for this |
| 22 University of Connecticut for any consulting work I do. 22 As you may remem | |
| 23 But then, yes, I receive the funds. 23 this deposition in Marc | ember, we had originally scheduled |
| | rch, and then it was moved till |
| Q. How much time have you spent up until today on 24 today. | |
| 25 this case? 25 Q. Due to snow cond | |

05/25/2017 Douglas Casa, Ph.D.

| 03/2 | 23/2017 | | Douglas Casa, Ph.D. |
|------|---|----|---|
| 1 | Page 34 A. Yes. | 1 | Page 36 A. Yes. I have this file right here. (Pause.) |
| 2 | Q right. | 2 | I don't know how you want to label this. And I |
| 3 | A. So four of the dates are February that I had | 3 | don't know if you have this already. |
| 4 | accumulated hours because I was prepping for that. | 4 | But it's Mountain States Physical & Hand |
| 5 | And then I didn't have any new hours till May | 5 | Therapy that's the name of the facility. It's |
| 6 | prepping for this one. | 6 | functional capacity evaluation. |
| 7 | Does that make sense? | 7 | And I'll give you a date. It was done |
| 8 | O. And so | 8 | April 25th, 2017. So that was one of the items. |
| 9 | A. These are my only records of that. But you can | 9 | Something called an After Visit Summary from SCL |
| 10 | look at that. | 10 | Health, and it's also it's April 25th, 2017. |
| 11 | Q. Sure. And we're looking at your handwritten | 11 | So these were three new items I just got. |
| 12 | notes. You've broken down dates. So of the dates that | 12 | And one is called SCL Health MyChart. I'm |
| 13 | you're identifying February 3, 6, 7, and 8, totaling | 13 | assuming it's the same related to that visit. It's |
| 14 | 11 hours that would have been prep time for the prior | 14 | four pages this one. |
| 15 | depos | 15 | I'll let you know what the other one is. The |
| 16 | A. Yes. | 16 | other one's the second one was five pages. |
| 17 | Q or prior depo that was scheduled? | 17 | The first one, the report, is 13 pages. |
| 18 | A. (Nodded head affirmatively.) | 18 | Let me see if there are any others. I think |
| 19 | Q. And then May 20 20, 22, 23, 24, 25 is for | 19 | that's close. (Pause.) |
| 20 | prepping for today's depo? | 20 | So one other thing I know that is I don't have |
| 21 | A. Yes. | 21 | that this is my copy but there's a chronology of |
| 22 | Q. And that's an additional it looks like nine | 22 | events. So I do want you to note I did include it in my |
| 23 | hours? | 23 | original report. It's "E." |
| 24 | A. Yes. | 24 | Q. Right. |
| 25 | Q. Now did you say, Doctor, though, that you had | 25 | A. But this was updated since then. So this is a |
| | g. 10. 424 104 541, 200051, 015451, 0146 104 144 | | |
| 1 | Page 35 some additional time spent in reviewing more materials? | 1 | Page 37 newer version. |
| 2 | A. Yeah. So there's a couple materials that I had | 2 | Q. Okay. |
| 3 | received since this, a statement, but also re-reading | 3 | A. So I just wanted you to know it's January 31st, |
| 4 | some of the original materials. | 4 | 2017. |
| 5 | Q. How much time have you spent reading additional | 5 | Q. All right. |
| 6 | materials? And are you charging for those? Or are they | 6 | A. So that was if you see these hours, I had just |
| 7 | included in this 20 hours we just | 7 | gotten this when I sat down to start doing some work on |
| 8 | A. No, no, 20 hours is all the time I've put into | 8 | that. |
| 9 | the case since August 26th. | 9 | Q. All right. And so that's been updated. |
| 10 | Q. Including the time spent reading materials? | 10 | Here's what we'll do, Doctor. I know this is |
| 11 | A. Yes. | 11 | your copy. |
| 12 | Q. About how much of the time then, Doctor, where | 12 | A. Yes. |
| 13 | you spent reading the extra materials versus just prep | 13 | Q. We'll leave this with you. But we'll mark this |
| 14 | time for depos? | 14 | as Exhibit 166; and we'll make sure that we just take a |
| 15 | A. I don't know. | 15 | copy for the court reporter |
| 16 | Q. Let me just ask this. I'm trying to find out how | 16 | A. Sure, absolutely. |
| 17 | many additional materials you received. | 17 | Q and you get your original back. |
| 18 | So let me just ask you that. What additional | 18 | A. Yes. That's why I included it brought it. |
| 19 | materials did you receive? | 19 | Q. All right. |
| 20 | A. I'd have to go through them. There's not that | 20 | (Defendant's Exhibit 166, Chronology of |
| 21 | many. Maybe like five to seven items, I'm going to | 21 | Events marked for identification.) |
| 22 | guess. | 22 | BY MR. SCHMITT: |
| 23 | Q. You have a laptop with you. Is it something you | 23 | Q. So you identified those three additional medical |
| 1 | = | | |

25 they were?

24 can just pull up and just identify for us by name what

24 records -- the FCE and the two other medical records.

Did any of those medical records change or alter your

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| 1 | Page 38 opinions in any respect? | 1 | Page letter as Exhibit 168. |
| 2 | A. No. The one I just told you about from | 2 | (Defendant's Exhibit 168, Letter dated |
| 3 | April 2017 was kind of just a medical checkup he had to | 3 | December 19, 2016 from Mr. Cox marked for |
| 4 | kind of give a status report of where he is right now. | 4 | identification.) |
| 5 | And it doesn't change anything that's in my documents. | 5 | BY MR. SCHMITT: |
| 6 | Because when I wrote that in August, it's similar to how | 6 | Q. It's a letter dated December 19, 2016, from |
| 7 | he's doing now. | 7 | Mr. Cox where he's enclosing the videotape from the |
| 8 | Q. In regards to the updated chronology of events | 8 | deposition of Mr. Herrera taken May 5, 2016. |
| 9 | that we just marked as an exhibit, did anything in there | 9 | A. Yes. |
| .0 | change any of your opinions? | 10 | Q. All right. Did you watch that entire videotape |
| .1 | A. No, no opinions were changed. | 11 | A. Not the whole thing. I watched a portion of it |
| 2 | Q. All right. Anything else that you have read or | 12 | Q. How much time did you spend looking at it? |
| .3 | reviewed after authoring your report, Exhibit 163, that | 13 | A. I'd say 40 to 45 minutes. |
| 4 | we haven't discussed? | 14 | Q. Was there anything in regards to your viewing the |
| .5 | A. Let me just give one quick check. I tried to do | 15 | videotape that changed or altered any of your opinions |
| 6 | this this morning for you. (Pause.) | 16 | A. No. |
| 7 | So I did receive I have to just | 17 | Q. Coming back to Exhibit 167, you mentioned that |
| 8 | So this is a cover letter that will hopefully be | 18 | you reviewed at least three of these expert reports. |
| 9 | helpful for us. | 19 | First Dr. Carollo, he's a cardiologist? |
| 0 | Q. And this is a cover letter dated November 3, | 20 | A. Yes. |
| 1 | 2016, that actually identifies some additional materials | 21 | Q. All right. Doctor, do you have any special |
| 2 | that you reviewed? | 22 | training or education in the field of cardiology? |
| 3 | A. Yes. | 23 | A. No. |
| 4 | Q. They're reports from Drs. Goldner, Carollo, | 24 | Q. Is there anything about what Dr. Carollo said i |
| 15 | Nelson, and Diaz. | 25 | his report that affects or alters your opinions in thi |
| 1 | Page 39 MR. SCHMITT: For our record we'll mark that | 1 | Page case? |
| 2 | as 167. | 2 | A. No. |
| 3 | (Defendant's Exhibit 167, November 3, 2016, | 3 | Q. Let me ask you this: Are you rendering any |
| 4 | Cover Letter marked for identification.) | 4 | |
| | BY MR. SCHMITT: | | cardiology opinions in this case? |
| 5 | | 5 | A. No. |
| 6 | Q. We've marked that cover letter as Exhibit 167. | 6 | Q. All right. And so in regards to whatever |
| 7 | It looks like according to this letter there were | 7 | Dr. Carollo may be expressing by his opinions, are you |
| 8 | also some records from Del Sol Medical Center for an | 8 | refuting or commenting at all on those? |
| 9 | admission on August 24 of 2016 including an EEG report. | 9 | A. Only if he commented specifically on heat |
| 0 | Did you review all of these materials that are | 10 | illnesses I would refute because it's my area of |
| .1 | identified in Exhibit 167? | 11 | expertise. |
| .2 | A. I have not. For time reasons, I didn't. I | 12 | But I would have no comment related to |
| .3 | reviewed the Diaz one. | 13 | cardiovascular issues or that of a cardiologist. |
| .4 | Q. Okay. | 14 | Q. All right. Dr. Kevin Nelson, neuroradiologist; |
| .5 | A. And I I'd have to I'd have to double-check. | 15 | you're not licensed or no training as a |
| 6 | I believe I checked I believe I did two, three, and | 16 | neuroradiologist; true? |
| 7 | four. I don't know if I did Goldner. | 17 | A. True. |
| 8 | Q. Okay. | 18 | Q. Are you refuting or disputing anything that |
| 9 | A. All right. | 19 | Dr. Kevin Nelson may be saying in this or opinions tha |
| 0 | Q. I guess before we come back to that, anything | 20 | he's rendering in this case? |
| 1 | else, Doctor, that you reviewed | 21 | A. No. |
| 2 | A. Yes. | 22 | Q. Dr. James Diaz. Do you know Dr. James Diaz? |
| 3 | Q after your report? | 23 | A. No. |
| 4 | A. This is another cover letter. | 24 | Q. Is there anything that Dr. James Diaz said in h |
| 5 | MD CCUMITT. Co well mark this gover | 1 2 = | |

MR. SCHMITT: So we'll mark this cover

25 expert reports that you are refuting or disputing?

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| | Page 42 | | Page 44 |
| 1 | A. Nothing changes my opinion. | 1 | A. That's what I've tried to share with you so far. |
| 2 | But I do believe I disagreed with some of his | 2 | And I didn't print out every single item or |
| 3 | perspectives on heat illness in there. But I can't | 3 | deposition because if they were included already, you |
| 4 | recount for you exactly at this point what they were. | 4 | know I already have them. So I didn't print out |
| 5 | Q. All right. | 5 | thousands of pages. |
| 6 | A. Yeah, but I would want to keep open the potential | 6 | Many of the items I received just, you know, only |
| 7 | to disagree with some of his statements. | 7 | came via PDF. I never had hard copies. |
| 8 | Q. To the extent that it's in the area of a | 8 | Q. Understood. While you didn't print them out, the |
| 9 | heat-related illness and something that you would be | 9 | items that you did receive and that are part of your |
| 10 | expressing an opinion on differently than what Dr. Diaz | 10 | work file are identified in No. 163 or what we've just |
| 11 | is? | 11 | discussed? |
| 12 | A. Yes. | 12 | A. Yes. |
| 13 | Q. All right. Dr. Goldner, you don't believe you | 13 | Q. All right. Other than that, you've brought with |
| 14 | reviewed his report? | 14 | you any of the other materials? |
| 15 | A. I don't think I did. | 15 | A. Yes. |
| 16 | Q. And Dr. Goldner is a neurologist. Do you have | 16 | Q. All right. So in going through Exhibit No. 163, |
| 17 | any specialized training in the field of neurology? | 17 | let me ask you I believe I understand and recognize |
| 18 | A. No. | 18 | all of these. |
| 19 | Q. All right. So Doctor, is there anything else | 19 | I do note Exhibit No. Q, it says: Herrera's |
| 20 | that you reviewed after authoring your original expert | 20 | symptoms 9/22/15. |
| 21 | report that we haven't discussed? | 21 | What is that? I'm just not certain if I know. |
| 22 | A. Now, this is the stuff I wanted to share with | 22 | A. Yeah, I'd have to I'd have to spend some time |
| 23 | you. This is some of the work I did since August, is | 23 | finding that for you. I mean, remember I wrote this in |
| 24 | why those hours had accumulated. | 24 | August. So I'd have to think about that. I don't have |
| 25 | Q. So if I understand your prior testimony then, | 25 | an answer right now. |
| | Page 43 | | Page 45 |
| 1 | nothing additional that you've reviewed has altered or | 1 | I mean, I'm sure I have something. That's why I |
| 2 | changed any opinions that you've expressed in | 2 | wrote that, because I just had a I went through every |
| 3 | Exhibit 163? | 3 | single item I had. |
| 4 | A. That's correct. | 4 | Hold on. This is file there's a file named |
| 5 | Q. And does Exhibit No. 163 contain a complete | 5 | Herrera Symptoms. 9/22/15 is the date. |
| 6 | disclosure of all of your opinions and your bases for | 6 | Q. That's it. Okay. |
| 7 | your opinions? | 7 | A. Yeah, okay. |
| 8 | A. Yes. | 8 | Q. And what is that? |
| 9 | Q. Let's go through this and talk about this in a | 9 | A. So it looks like a handwritten note. |
| 10 | little bit greater detail. | 10 | And now I remember because I think it's written |
| 11 | Is this the only document, Doctor, that you | 11 | by his fiancée or girlfriend. |
| 12 | authored in regards to this case? | 12 | This letter is written by me, Cynthia Hernandez, |
| 13 | A. Just a minute. | 13 | since Guillermo's hands were going numb often. |
| 14 | (Off the record.) | 14 | Written September 21st, 2015. |
| 15 | THE WITNESS: I have not authored anything | 15 | Q. And that's a how-many-page document? |
| 16 | else related to this case. | 16 | A. Four. |
| 17 | (Defendant's Exhibit 162, Amended Notice To | 17 | Q. And is there a date on that document? |
| 18 | Take Deposition marked for identification.) | 18 | A. Well, she dated it the 21st; but it's 22nd on the |
| 19 | BY MR. SCHMITT: | 19 | file that I received. |
| 20 | Q. All right. Just for our record I'm handing you | 20 | Q. All right, of 2015? |
| 21 | what's been marked as Exhibit 162. This was a notice | 21 | A. Yes. |
| 22 | for your deposition asking you to bring various | 22 | Q. All right. Here's what I'd like to do, Doctor. |
| 23 | materials. | 23 | Are you able to |
| 24 | Did you bring those materials with you here | 24 | A. I can email it to you right now. |
| 0- | 1.1.0 | | 0 0 |

25

Q. Sure.

25 today?

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| | Page 46 | | Page 48 |
| 1 | A. Do you want it just on a break-out email or do | 1 | It's July 2015. |
| 2 | you need it right now? | 2 | Q. In regards to Item V, the General Code of |
| 3 | Q. You know what? We can do it after the | 3 | Operating Rules, is that a document that you're familiar |
| 4 | deposition. It will be fine. | 4 | with? |
| 5 | A. I'd add it to my list. | 5 | A. When I read it, I'd say yes. Not at this second |
| 6 | Q. That's fine. | 6 | right now, the whole thing. |
| 7 | Some of the Exhibits that are identified are | 7 | But I've certainly reviewed it a few different |
| 8 | Federal regulations from the Federal Railroad | 8 | times. And I I think I probably reviewed the fourth, |
| 9 | Administration; is that right? | 9 | fifth, sixth, seventh editions over the last ten years. |
| 10 | A. Yes. | 10 | Q. Well, I'll tell you it's a pretty large book. |
| 11 | Q. Item No. T? | 11 | A. Yes. |
| 12 | A. Yes. | 12 | Q. Is it fair to say that you're looking at certain |
| 13 | Q. All right. Have you ever been employed by the | 13 | rules that are selected for you by the attorney that's |
| 14 | FRA? | 14 | asking you to take a look at it? |
| 15 | A. No. | 15 | A. That is correct. But I also we've also used |
| 16 | Q. Do you have any specialized legal training? | 16 | that in classes I teach and other things that we write; |
| 17 | A. No. | 17 | because if we're looking for current advice out there |
| 18 | Q. Are you rendering any legal opinions in this case | 18 | like in the military world, athletic world, laborer |
| 19 | in regards to the interpretation of Federal regulations? | 19 | world related to like heat illness so like |
| 20 | A. No. | 20 | prevention, recognition, and treatment of heat illness. |
| 21 | Q. The same with the United States Code, Item No. 2, | 21 | So I've looked it professionally, not just |
| 22 | Federal Railroad Safety Act. Again, have you ever been | 22 | related to litigation. |
| 23 | employed by the FRA or the government in regards to | 23 | Q. You said you've actually taught some courses |
| 24 | federal requirements for railroads in regards to | 24 | where the General Code of Operating Rules is a topic? |
| 25 | reporting accidents or anything of that nature? | 25 | A. Yes, because we I teach grad classes. And one |
| 1 | Page 47 A. No. | 1 | Page 49 of the grad classes is exertional heat stroke. That's |
| 2 | Q. Are you rendering any legal opinions, Doctor, in | 2 | the whole class is just heat stroke. |
| 3 | regards to the interpretation or application of any | 3 | I have another class just on preventing sudden |
| 4 | Federal regulations or United States Code regulations in | 4 | death during physical activity. |
| 5 | regards to reporting accidents? | 5 | So we've review just, like, what's the industry |
| 6 | A. No. | 6 | standard for the oil industry or for the Army or for |
| 7 | I did just remember one item. I did get a | 7 | different areas. So we scour, you know, the current |
| 8 | weather report sent to me and I don't have it, I have | 8 | recommendations. |
| 9 | to find it for the July weather of where they were in | 9 | Q. So the class that you teach on exertional heat |
| 10 | California beforehand. | 10 | stroke is called just that? |
| 11 | So I'm just letting you know that. | 11 | A. Yes. |
| 12 | Q. When did you receive it? | 12 | Q. What book do you use for that? |
| 13 | A. I don't remember. I just remember I had it. | 13 | A. Fifteen whole weeks just on heat stroke. Crazy, |
| 14 | And I'm just seeing it's not here right now. And | 14 | right? |
| 15 | I'm thinking I received it since this report. So this | 15 | Q. What's the text? |
| 16 | report is accurate. | 16 | A. We don't have a text book. We just use all the |
| 17 | But I think I had asked, like, the weather | 17 | current literature. |
| 18 | conditions he was in, you know, before heading to Kansas | 18 | There's not really a text book out there that |
| 19 | from California. | 19 | you know, that you could use for 15 weeks just on heat |
| 20 | So I can send that to you as well. I'll make | 20 | stroke. So we use the current research. |
| 21 | that a PDF if I find it. | 21 | Q. And so you give your students handouts during the |
| 22 | Q. Sure, that would be fine. | 22 | class? |
| 23 | A. So it's California weather report. | 23 | A. Yeah. Or they sometimes help identify the |
| 24 | Q. Did that change or alter your opinions? | 24 | current things. |
| 25 | A. No, no. | 25 | And that's part of the class assignments. So |
| | 1 | | |

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Page 50 Page 52 1 people might be assigned different things to try to 1 What are you trying to express by breaking these down into -- quote -- considerations? Are they just identify some of the current recommendations. Q. Do you have a curriculum, then, for that different topics? Or how would you characterize --3 particular class? A. Well, it's kind of just -- kind of telling a 4 A. Like a syllabus? story. So like a little bit of an overview in the Q. A syllabus. beginning of the medical condition that we're dealing A. Yes. 7 with. Q. Do you? Can I get a copy of that syllabus? 8 And then we get into issues related -- things 9 that can compromise exercise heat tolerance to try to 10 Q. Who knows, maybe I'll become a student here. 10 get a sense of if any or some or all of those were 11 A. There you go. You can do it online. 11 present. 12 Q. Oh, do you offer online courses here? 12 And then try to then draw some conclusions on if A. We don't. But we have guest speakers all the some of those were present, can they have been modified? 13 13 time come in, like, from all the different industries And then if they could have been modified, were like military people and OSHA and NIOSH people come in 15 they? 16 to try to --And then, you know, if they weren't modified; did 16 17 The students who are sitting in my classes, you 17 that have an implication on the outcome? 18 know, end up working in these settings later. So it's 18 Q. Have you ever personally examined Mr. Herrera? very useful for them. 19 A. So I saw the video that I mentioned earlier. Q. I'm curious, how big are the classes here that 20 2.0 21 21 A. And I did have a phone conversation with him. vou teach? A. Grad level classes are probably between 12 and Q. When did you speak with him? A. I knew you were going to ask that. I don't know. My undergrad classes can be anywhere between 15 It's -- Is it okay if I -- he may -- it was January or and 30. They're upper level classes. 25 February. It was before the deposition we were planning Page 51 Page 53 Q. How many classes do you teach in an average to have in March. So --2 semester? 2 Q. Of this year? 3 A. I usually -- for people who are A. Correct. So 2017. 3 research-intensive here, the course load is two in the 4 O. And --5 fall and two in the spring. 5 A. So it was January or February of 2017. But I typically buy out of a class in the spring. Q. How long did that conversation last? 6 6 So I usually do two in the fall and one in the spring. 7 A. I'll say 20 to 30 minutes. 8 Q. All right. 8 Q. What was the purpose of the conversation? A. Oh, I just -- I wanted to get a sense of his 9 Going back then to your expert report. After the 9 introductory section that tells us everything that 10 memory of different signs and symptoms and things he you've reviewed, then it's broken down into seven felt that day; but then also just get a sense of his 12 Considerations they're titled --12 current well-being in terms of, like, you know, thought processing, especially his heat intolerance now. 13 A. Yes. 13 14 Q. -- is that right? Like, can he go outside and exercise in the heat? 14 And in fact, as part of this exhibit, Doctor, Does he have any lingering sequela from the exertional there is a section for the prior experience as an heat stroke? expert. That contains some of the same information as Q. What did Mr. Herrera tell you? 17 the document we already marked showing your litigation A. Stuff that's -- nothing changed in terms of my 18 18 19 history? 19 opinion. It was very consistent with what we've read so A. Sure. So the document I gave you today is more far and his medical reports had been up to this point. updated. That's what why I brought it for you. 21 So it was very, very consistent. 22 Q. Understood. 22 Q. Is there anything that sticks out in your mind that he specifically said to you? 23 23 A. Yes. Q. And let's first get an understanding then in 24 A. No. I can't say -- I didn't get any, like, new

information during that call.

regards to the seven considerations.

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Page 54 Page 56 Q. All right. the thermoregulatory system. So your body A. It reinforced what I had already known. temperature -- you're creating more heat than you can Q. So in other words, let me ask you this, in lose during a set period of time. 3 regards to the medical records, typically a healthcare Most people define heat stroke somewhere around 4 provider will take a subjective history? 5 105 degree Fahrenheit range. 6 The two key diagnostic criteria for heat stroke Q. And they'll ask the patient: Hey, how you doing? are usually central nervous system impairment and 7 8 How are you feeling? Things like that? 8 extreme hyperthermia at the time of the incident. So 9 A. Yes. most people would say 105 or greater. And then some kind of CNS impairment. 10 Q. So what Mr. Herrera is telling you, are you 10 11 telling me essentially that it appeared to you to be 11 There are other signs and symptoms; but those two consistent during your phone call what he was telling are usually the key diagnostic criteria. 12 you as far as what he was telling his -- the doctors? 13 And then the outcome you see with a heat stroke 13 A. And what he said in his deposition. 14 long-term is related to the number of minutes that 15 Q. All right. 15 someone's hyperthermic. So if someone's above the 16 A. All very consistent. threshold -- somewhere around 105 -- if they're above 16 17 Q. Did you take any notes from that conversation? 17 that for 30 minutes, there's an increased likelihood A. I didn't, no. 18 that they'll either die or have long-term complications Q. All right. And --19 from the incident. A. I would have if there was something I needed. 20 The evidence indicates if their temperature is 20 21 There was just nothing different. under -- if it can get under 105 within 30 minutes, the 2.1 22 Q. Okay. Let's go through some of these 22 evidence indicates a hundred percent survival based on considerations in a little bit greater detail. over 2,000 cases we've reviewed. Do you need a break or how are we doing? 24 Q. So a hundred percent survival if the temperature 25 (Off the record.) of 105 or more lasts no more than 30 minutes? Page 55 Page 57 1 BY MR. SCHMITT: A. That is correct. Q. So Consideration No. 1, it says: Guillermo 2 Q. All right. Herrera suffered an exertional heat stroke on July 26, A. So then if it's over that temperature -- like, in 3 3 the 30 to 60 minute window -- they're likely to survive; 2015. 5 Tell me all bases for you rendering that opinion 5 but they're likely to have long-term complications, but that he suffered an exertional heat stroke. hopefully or likely not to be permanent complications. 6 A. That's my interpretation based on the signs and 7 If it's over 60 minutes, they're very likely to symptoms, on the situation in which it occurred, and 8 8 die related to the incident. If they do survive, then the complications of recovery thereafter. 9 they're very likely to have some permanent consequences 10 Q. So what were the signs and symptoms that 10 11 occurred? 11 Q. So over 60 minutes, likely to die. 12 A. Sure. I mean, there's a lot of them. But things 12 What's the literature say around the percentage 13 of -- or the percentage of individuals who do die from that he was feeling that day; things like being faint, 13 14 dizzy, nauseous, diarrhea, light-headed, confused, more 14 that? fatiqued than usual, not able to support himself. Those A. I would say it's at least three-quarters of the 15 are just an example of some. people would die if they're hyperthermic for more than 17

17 Q. I made a list of what you just identified, eight items. 18

19 And is it your understanding that Mr. Herrera experienced all of these before he was seen at the

hospital that day? 21

22 A. Yes.

23 Q. Now in regards to heat -- exertional heat stroke, first define for me what is exertional heat stroke.

A. So exertional heat stroke is an overwhelming of

60 minutes.

Remember this isn't an extremely easy thing to study, because you obviously can't put people into different buckets. You know, like you're not going to get cool; you're going to get cool. So you have to look

23 But I think that gives you a good idea.

back retroactively.

Q. And of the other 25 percent who suffer that heat for over 60 minutes, what percentage of those will have

18

19

21

22

24

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Page 58 Page 60 1 permanent complications? when you're diagnosing exertional heat stroke, I mentioned temperature before. Rectal temperature is A. What percent of the 25 percent? Q. Right, that survive. really the most accurate way to get that. A. I would say probably 50 to 75 percent of that So we don't have a rectal temperature during the 4 remaining group will have permanent complications. day, at the time of collapse, during recovery. We have They'll almost all have complications. They no temperature for at least, like, a six or seven-hour just -- for some lucky ones they're not permanent. window from when he first had signs or symptoms to when 7 8 I've found -- we have found that when someone's 8 -- the second he arrives at the hospital. 9 young, super healthy at the time of the heat stroke --9 So these are just obviously having to make -- I'm like if you're a 20-year-old, super-fit linebacker, you just using my best clinical judgment. have a heat stroke and happen to be hyperthermic for a 11 Q. Tell me what facts are you relying on to support longer period of time, they're the ones that seem to 12 your -- Strike that. have that chance to maybe not have permanent 13 What are the facts that you are relying on as the 13 complications as compared to some other people who have basis for all of the opinions that you're giving in this case in regards to the chronology of the events that 15 heat stroke and don't get treated properly. 15 16 Q. For the individuals that are in the 30-minute to day? 16 17 60-minute window, what percentage will suffer 17 A. Yeah. So I'd say it's multifaceted. So you have 18 complications? 18 the circumstances in which he was. 19 A. I would say about a third of that group will die. 19 So you have people doing intense exercise in the 20 And then I would say two-thirds will have 20 heat. You have the signs and symptoms that he reported 21 complications. 21 through the morning into the early afternoon. 22 And of those two-thirds, I would say about a 22 Q. Let me just stop you for just a moment. third are permanent. And when I say "permanent," just, And those are the eight signs and symptoms that you know, I'm meaning, like, two, three, four years; you've already mentioned: Fainting, dizzy, nausea, because sometimes they don't get to look at them, like, 25 light-headed, confusion, fatigue, not able to support Page 59 Page 61 20 years later because we don't have the ability to know himself, and -- I can't read my writing. Is it that much later. 2 disoriented? 3 Q. And by temporary complications, what would you A. Diarrhea. 3 use for the cutoff for time period? Q. Diarrhea. Correct? A. I would usually say three to six months. And 5 A. Yeah. I'm not saying that that eight is the temporary -- like, they usually have the ability to get exhaustive list; but those are eight examples. 6 back to what they were doing before. 7 Q. Of what Mr. Herrera had during the day before 8 So whether it be playing football, their job, 8 admitting to the hospital? being a war fighter; their body eventually makes a full 9 A. Yes. 10 10 Q. All right. So that was -- Item 1 was intense 11 Q. In which of these categories do you place exercise in the heat. 12 Mr. Herrera? 12 Item 2 --13 13 A. Oh, I would say the last one. He was -- I A. Well, we could probably make those two different 14 believe he was hyperthermic for more than 60 minutes. ones. You have exercise is one item, and heat is the Q. Why do you say that? second item, then third is his signs and symptoms he's 15 15 16 A. Just based on my clinical experience related to reporting. 17 exertional heat stroke. 17 Q. Okay. 18 If he was struggling in the morning. And then he 18 A. And then fourth is his inability to recover 19 fell out or, like, wasn't able to continue work 19 after. somewhere around, you know, 1:00, 1:30 range; and then, 20 Q. Inability to recovery after what? 21 A. After the incident, so like in the days ensuing. you know, at least a couple hours where he wasn't 22 getting aggressive cooling. 22 So just to give you an example. If it was a more 23 So my clinical judgment says that he was 23 mild heat illness, he would be back to normal within a hyperthermic for an hour or two at least. 24 day or two. 25 But, I mean, obviously, we don't have any -- so So it eliminates all the other heat illnesses and

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Page 62 Page 64 1 funnels my thoughts to consider it being a heat stroke. A. Then at this point I believe one of his Q. But in regards to the actual facts, the supervisors is very stern about him returning to work. chronology of events that occurred that day -- you So he maybe feels pressured to return. And now he goes 3 already alluded to some of it. But I want to make sure 4 again to try to work again. I understand specifically what you are relying on as Q. How much time does he spend in the vehicle with 5 being accurate of the events that day. the air conditioning? 7 When did he first start experiencing problems? 7 A. I'm not exactly sure. I'm going to say 30 to How did he progress during the day? 60 minutes. 8 8 9 I think you mentioned something about 1:00 or 9 Q. And then as a result of a supervisor being stern, 10 1:30. 10 he returns back to work? 11 But take me through that. So what are you 11 A. I'm not saying that was the only reason; but that assuming occurred that day in order to support these was something that was anchored in the literature that I 12 opinions? 13 13 A. Yeah. So somewhere around mid-morning he was 14 Q. So he goes back to work at what time? 15 struggling. So that he was resting in the shade next to 15 A. I'm going to say somewhere around noon or 12:30 16 a tree, took a break. 16 range. 17 And this is a person, obviously, who -- at least 17 Q. And then what happens? based on the stuff that I was provided -- had always 18 18 A. Then he goes back. And he's working again. And been a good worker. One person referred to him as a 19 he is struggling again. Super Man. Another person said he was a very hard 20 At this point, I guess, it gets to the point 21 worker. So a person who had not had previous struggles where he has to sit down again. And I think one of his 2.1 or difficulties in these circumstances; and he's taking colleagues calls for assistance now at this point. And someone sends a vehicle for him. And he has a break. 23 24 He goes back to work. He's struggling again. 24 to be helped to the vehicle because he can't support his 25 Q. Now when you use the term "struggling," so he's 25 own weight. Page 63 Page 65 1 struggling mid-morning and to the point that then he In fact, one of the colleagues says that he's takes a break in the shade. What do you mean by like dragging his feet at this point because these two 3 "struggling"? 3 men are carrying him to a car; and he's in no way A. Like, light-headed, dizzy, inability to keep up providing any assistance himself. 5 the pace at which he's working. 5 And he's said to be confused at this time and Q. So by mid-morning he's light-headed; he's dizzy; having some other signs and symptoms that we already 6 6 he's unable to keep up with his coworkers. 7 reported. 8 Anything else? 8 So those things all told together makes me think A. No. The fact that he was perceptive enough to 9 9 that he was suffering a heat stroke at this point. know that he wasn't himself was actually a good thing. 10 Q. And so what time is this that this happens? Because not all people who go to the path of heat stroke A. I believe that -- I don't know if someone could necessarily are able to really have this 12 look into the records of when those calls were made -self-perception. So he obviously knew that he was not but I think it was around 1:00 or 1:30. 13 13 14 up to par. Q. Well, and I'm asking for the assumptions that you 14 15 are making in order to form your opinions. And that's So then he went back to work. 16 And then he's not feeling well again. And he what you're telling me here? seeks out the shelter of a vehicle that has air 17 17 A. Yeah. I believe this is the first time, though, 18 conditioning. 18 that we could actually get a time stamp. 19 Q. What time did he do that? 19 If he used a cell phone, I believe you could --20 A. I -- these are all based on estimates from 20 probably could actually get an official log of the time, people -- so I think somewhere around 10:30, 11:00 is what I'm saying. 21 22 range. 22 I don't know the official time; but I'm saying 23 We don't have formal time stamps on some of these 23 someone probably could find it out. things. So... 24 Q. But you're assuming that this was at 1:00 or 1:30

that this takes place?

Q. Okay.

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Page 66 Page 68 A. Yes. 1 A. That's a good question. That's a good question. So --Q. And at 1:00 or 1:30 you itemized several things. 2 Let's go through these. 3 MR. COX: Excuse me, Doug. So Mr. Herrera at this point is struggling to the Form and foundation. 4 4 point that he needs to sit down. He cannot support his 5 THE WITNESS: So good question because I own weight in any way? 6 think a lot of the people -- I think hopefully A. Yes. 7 7 almost all these people are telling the truth. Q. And he needs to be literally carried by two 8 So some of the people are reporting no people to this vehicle to transport him away? 9 confusion. They might have had interactions 10 A. Yes. 10 with him at times during the day where he didn't exhibit confusion. So they might have been 11 Q. He's expressing confusion? 11 A. Well, he's exhibiting it, I'd say, yes. 12 telling the good, honest truth. 12 Q. Can you explain how he's exhibiting confusion? 13 But then you also have situations -- so I 13 A. Oh, no, that was just someone -- one of the 14 think I know at least three circumstances where 15 people reported that. 15 people reported him being -- having confusion. 16 Q. And then what else in addition? You said then 16 So it was three different people. So that helps 17 the signs and symptoms of earlier, meaning? 17 me say it's just not one person's interpretation 18 A. What I had shared with you earlier -of this. Q. So those eight items? 19 BY MR. SCHMITT: A. -- faint, dizzy, nauseous. 20 Q. And so for purposes of your opinion you're 20 I've dealt with a lot of exertional heat strokes. 21 21 assuming he did, in fact, have confusion? And these are very similar symptomatoly and 22 A. Yes, that there was some amount of CNS circumstances to what I've seen previously. dysfunction. Q. Okay. Anything else that Mr. Herrera is 24 Q. And then what happens next in regards to the experiencing or facts that are occurring at this point 25 events that day that you're relying on to support your Page 69 Page 67 1 to lead you to form your opinion that he suffered an opinions? exertional heat stroke at this time at 1:00 to 1:30? 2 A. So some people come to assist. They bring the 3 A. No, not -- up to this point we're good. So I'll 3 vehicle. He gets on the vehicle. have more later. That person who came to assist, I believe, calls Q. Let me ask you this, Doctor: Of all of these 5 his own supervisor to get kind of maybe directive of items that you've just identified, of course, you're what to do. assuming that all of these things, in fact, occurred; 7 And I guess they come to some decision to meet at 8 right? 8 some kind of convenience store or gas station to either evaluate the situation or maybe transfer him to another 9 A. So, yeah. When I read the stuff, I just assume 9 people are all being -- I can't, like, pick through 10 11 materials to see who's telling the truth and who's not. Q. What time are you assuming for purposes of your 12 So this is based on the materials that were shared with 12 opinions that this vehicle came to assist? me, and collectively I formed this opinion. 13 13 A. I'll just check the name. 14 Q. Because there can be evidence in the record of So Diaz, I think, is the supervisor. 14 other individuals that are, for example, speaking with So I believe that they probably met this person 15 Mr. Herrera who don't support these things. in the 2:00, 2:30 range. 17 For example, no confusion, or he doesn't have 17 O. Met. where? this problem, or he doesn't have that problem. 18 A. At this convenience store, service station. I 18 19 Here is my question: How do you determine if you 19 really am not exactly aware. have -- just generally, if you have a group of people --20 Q. So they go from the job site to this gas station, six, eight, ten people -- who all say this man has no 21 convenience store? 22 confusion; and you have one person and possibly the 22 A. Yes. Q. They arrive there at the gas station around 2:00, 23 Plaintiff himself who says I do have confusion; how do 23

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2:30 is what you're assuming?

A. Yes. And then Mr. Diaz interacts with

credible?

24 you make a distinction on which one you find to be

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accurate?

A. Yes.

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Page 70 1 Mr. Herrera and his colleague that brought him. And important amount of time that we lost the ability to 2 then he -- they make the decision at this point to bring provide medical care. him to, kind of, the work headquarters where they have, 3 Q. So you're assuming that three hours of time like, a cooling station. 4 passes from when Mr. Herrera, you said, goes down until Q. How was Mr. Herrera doing at the time of the he arrives at the hospital? meeting at the gas station around 2:00 or 2:30? A. I'm estimating. 7 A. I would say he still feels out of sorts. I do Q. Approximately three hours? 7 8 think he's able to communicate verbally. A. Yeah. With the 1:30 at the job site and 4:30 9 But I think you have to remember one of the key approximately that he's logged into the hospital. aspects -- and I noted it somewhere in my report -- when 10 Q. And you're assuming that timeframe to be what, in 11 someone's suffering a heat stroke, their opinion is 11 fact, occurred in this case, approximately three hours? A. Yes. just -- is not very worthy. So when you ask someone: 12 12 Do you want to go to the hotel? Do you want to go the Q. All right. And again, Doctor, to the extent that 13 13 cooling station? Do you want to go to the hospital? any of these facts change -- that it turns out that some

clinically diagnose their own situation at all. I've dealt with many, many heat stroke people that if you ask them; they say they're fine, they want to go with their family. And then you check their temperature, it's 108 degrees. And they're in a really bad situation.

People suffering a heat stroke, they can't properly

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- Q. Is it important, though, to communicate with the 22 patient?
- A. Absolutely. But given all the circumstances of someone who struggled through the day in the heat;

needed to be carried to a truck -- and the person who is

doing the handoff was aware of that -- had exhibited

confusion; many, many signs of heat on this; that at

this point, certainly, the person should have been

transported to medical care.

Page 73 Q. At the time of the meet at the gas station -- and so Mr. Herrera is communicating, you said, verbally. You noted that it is important to communicate

of these facts that you're assuming to be correct

your opinions in this case; true?

from what I know right now.

aren't, in fact, accurate -- that, of course, can affect

Q. And it could change your opinions; correct?

information that told me something that is different

Q. From what you're assuming right now to be

A. Well, yes, if something -- if I had new

Because you have two nonmedical providers trying to formulate an opinion of what's the best course of action for Guillermo at that time.

Q. Is he doing better at the time he's being assessed when he's at the gas station? Is he the same? Is he worse than what he had been at the job site?

A. I'd say from the moment when he was carried to the car, he was probably doing a little better now that he'd been in this other car for a while. But it's a very, very, very serious circumstance that, you know, needs urgent attention.

If there was a medical person at their job headquarters, I think it warranted maybe to have some kind of cursory evaluation.

20 But from the time he was -- from the time he goes 21 down at his work setting and has to be transported, you approximately have three hours transpire before he arrives into the hospital. 23

24 And that is, you know, very unfortunate from my perspective, obviously, because I feel like that was an 2 3 with the patient. Is that an important part to at least assess how they're doing? A. Yes. 7 Q. Obviously, if a patient can't communicate at all,

it would appear that that patient is in a worse situation than a person that's able to communicate normally; true? A. Potentially. We have a lot of heat stroke people

who are not unconscious at the time of the incident. So it doesn't necessarily connect with severity down the road.

It's really important to look at this holistically because when you have the -- Diaz comes on the scene a little later. My impression at least was he's not fully informed that Guillermo struggled through the morning, and struggled into the early afternoon.

And I think if you saw everything as a collective whole, you would say: Okay, this guy's not been feeling well for the last four hours, even though he's taken a couple breaks. I'm going to get him medical care.

24 So I feel like the whole -- I'm not putting blame on any of these employees. Everyone, I'm sure, wanted

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Page 74 Page 76 1 to do the right thing for Guillermo. But I think It's one thing to give advice. But then if 1 2 collectively if you had all the information in front of you're pushing, obviously, to meet a work standard for a you, if Diaz had to do it again and he knew that he was day; it's tough for the employees to, kind of, implement 3 struggling since 9:30, and it's now 1:45 or 2:00, and 4 some of that advice. he's still struggling; he's like: I'm just going to 5 So that's why sometimes you make modifications to bring him in. We're going to go to the hospital. the work-to-rest ratios on -- during extreme days. 7 Q. Continuing then with the events. So they're at 7 I know especially Friday and Sunday were extreme. 8 the gas station 2:00 to 2:30. It's very unique that Friday was extreme because that 8 9 Have you told me at this point about everything 9 was their first day, I believe, working in Kansas since 10 that occurs at that visit that you're relying on? 10 coming from California. 11 A. Yes. 11 So California had -- you know, it was warm out Q. And then what happens next? 12 12 for sure. But it was not nearly as humid. A. I believe they take him to a Union Pacific work 13 So they come to this setting. And it's very 13 station that they have. Like, their headquarters where 14 oppressive Friday. They work their butts off, long day. they have the ability to provide some cooling for him I Saturday they work hard again. Not as hot Saturday. 15 16 think in the way of rest; air conditioning; and, you But then hot again Sunday. 16 17 know, ice packs. 17 So it's -- you want to see if there's, you know, 18 Q. And what time did they arrive there? 18 accumulation of stresses. In this high heat conditions A. I don't know exactly. But I believe he was there 19 and a high expectation for work, you want to consider for somewhere, like, about 90 minutes. modifications to keep them safe. 20 20 21 I'm not exactly sure of the distances between And you know, remember, Friday one person had a 21 22 everything, so... 22 heat illness. Q. And they're at the work station. Do you know 23 You know Saturday someone else was struggling. And now Sunday you have Guillermo that has to be 24 where that is? 24 A. I know it's close to the hospital. And it's in 25 hospitalized. 25 Page 75 Page 77 town. 1 That's three successive days with three different Q. And you're assuming that Mr. Herrera is there for 2 employees that have trouble. 3 about 90 minutes? 3 So I think like -- I think the company's, like, A. Yes. on the right page in terms of they're aware of what the Q. And then what happens? 5 risks are. But now I think you have to take the next A. Then due to his -- maybe their not being step potentially and consider some modifications. satisfied with the rate of his recovery, they make the 7 One good example is Diaz in his deposition said decision to bring him to the hospital. 8 he wasn't aware that a heat stroke victim might not be Q. And they arrived at the hospital, I think you 9 9 able to, you know, accurately portray the severity of 10 said, around 4:30 or so? 10 how they're feeling. And if that person is making that 11 A. I think, yeah. ultimate decision of hospital or not, then Diaz needs to 12 Q. In regards to -- you noticed or did you observe 12 be fully aware that that's part of the decision-making 13 throughout the records that Union Pacific, as part of 13 14 its work practices, that it stresses to everyone at the Q. You're assuming that there was an individual that 14 beginning of the morning when they have job briefings as had a heat-related illness two days before, one day well as through the day to be aware of the heat, to take before, and then Mr. Herrera was No. 3? 17 appropriate precautions? Did you see that, Doctor? 17 A. Yes. 18 A. I did, yes. 18 Q. And do you know what the circumstances were with 19 Q. And is that a good practice by Union Pacific? 19 any of these two prior individuals? 20 A. Definitely good. I just -- I don't know, I feel 20 A. Yeah. So on Friday it was a fellow named Turner. And I could give you some of the details. It's 21 like if you have extreme circumstances --21 22 So I think this happened on a Sunday. But Friday 22 in the thing that I was sharing with you today. and Sunday were really intense weather conditions. And 23 Q. The chronology? 23

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Pages 1 and 2.

weather conditions.

I don't know if they made modifications based on the

A. Yeah, so the updated one. It's reported right on

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Page 78 Page 80 Q. I mean, the chronology that you're referring to to be doing in order to work in high heat conditions? is Exhibit No. 166 that identifies select testimony --A. Yeah, absolutely. So I'd say there's probably 2 four or five things people can do to take responsibility 3 Q. -- out of depositions that was prepared by for themselves. 4 Mr. Cox; right? 5 Hydration before work and during and, obviously, A. Correct. 6 after if you have to work again the next day. 7 Q. And you're relying on this as part of your --And then also being fit, their fitness level. A. I just did it as to be more abbreviated -- we 8 Sleeping or trying to make an attempt to get a could go to the official record -- for time reasons. 9 proper amount of sleep. 10 Q. That's fine. 10 Trying to avoid excessive alcohol. 11 A. And then Marsing on Saturday -- M-a-r-s-i-n-g. 11 And fifth would be getting acclimatized to the Just for brevity it's on Page 8 here that there's some heat. But that's not a hundred percent in control of 12 description of him struggling in the heat on Saturday. the worker. 13 13 Q. "Struggling" in what sense? 14 It could be, like, if you're off for three weeks A. I can tell you. (Pause.) and then you're going to a work setting; you say: Well, 15 15 16 Do you want me to go to the Turner one, too? I'd better, you know, get some exercise in the heat 16 17 It's up to you. 17 because I'm about to go do that. But if you just literally go from California on a 18 Q. You know, the depositions speak for themselves, 18 19 Doctor. 19 Thursday to work Friday, that might not be in their 2.0 A. Yeah. 20 control. 21 Q. So I don't think -- I mean, all that you're 21 Q. Certainly, the first four items you identified 22 simply doing there are reading if you're looking at -are in the control of the worker? A. So Marsing said he was very dizzy and feeling 24 light-headed himself on Saturday. 24 Q. And they need to take responsibility for 25 Q. He didn't seek medical attention? 25 themselves to make sure that they're ready and able to Page 79 Page 81 A. No. I'm just trying to give you an idea of work in the high heat conditions? someone struggling in the heat. 2 A. Yes. 3 Q. All right, yes. 3 Q. Let me ask you just in regards to the practices A. That's important information to know because that are taking place at Union Pacific this day that's how you make considerations regarding, you know, with -- and other days with having job briefings in the modifications. morning where the issue of heat is being discussed; that If I was a supervisor and someone struggled on everybody, you know, make sure that you stay hydrated, 8 Friday; struggled on Saturday; those are, you know, good 8 you know, talk about it, keep an eye on everyone. early warnings signs that maybe this transition from Is that a good practice for Union Pacific to do 9 California was a little more intense than I thought it 10 that? 11 might be given the more severe medical conditions. And A. Yes. 11 maybe there was something unique with the work settings 12 Q. Union Pacific, you saw, provides water, Gatorade, 13 here; which, for instance, maybe certain pieces of fruit to its employees. Is that a good practice? 13 14 equipment weren't being used and people were having to 14 A. Yes. work a little harder than maybe they typically work. Q. All right. Union Pacific stresses the importance 15 16 And, you know, the key factor that drives your of everyone keeping an eye on everyone else, making sure everybody's okay out there. Is that a good practice? 17 body temperature up is the intensity of the activity 17 18 even more so than the environmental conditions. 18 A. Yes. 19 But when you combine those two factors 19 Q. Union Pacific stresses taking breaks whenever an together -- environmental conditions with intensity --20 employee wants to. 21 obviously, those are the times you really want to be If in their own individual condition -- whatever 21 22 extra cautious. 22 it may be -- that they feel that, Hey, I need an extra

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A. Yes.

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Q. As far as individuals, is it important that an

individual take care of themselves and their body and

make sure that they are doing the things that they need

break, something beyond what these mandatory breaks are;

they should take one. Is that a good practice?

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Page 82 Page 84 Q. Union Pacific provides trucks with air from heat syncope, for instance. 2 conditioning that circulate throughout the gang that can 2 Q. What's that? 3 be available within minutes by the use of a radio if one A. There's many types of heat illnesses. Heat 3 isn't right next to the employee already. Is that a syncope is people who have fainting, light-headedness 4 good practice? related to exposure to the heat or exercise in heat, A. Yes. dehydration. Q. Is it a good practice for Union Pacific to have 7 And there's things like heat cramps; as you its cooling stations set up with canopies, coolers with 8 mentioned, heat exhaustion; heat stroke. ice and water? Is that all a good practice? 9 There's a lot of different levels of severity of 10 A. Yes. 10 heat illnesses. Q. Sure. 11 Q. And having water on the machines and available 11 throughout the day, as much water as anybody wants; is A. So Marsing -- when I'm saying Marsing may have 12 that a good practice? suffered an injury -- there's a lot of people who I'm 13 14 A. Yes. sure in athletics and work settings around the world who have minor heat illnesses who don't report them. 15 Q. All right. In regards to the events, then, with 15 16 Mr. Herrera; I mean, is it true that the individual that Q. Sure. 16 17 knows their body best is that individual himself or 17 A. Yeah. 18 Q. But I mean, it's very common for individuals that A. You're meaning like -- are we talking in general 19 are working outside in the heat to maybe feel some 20 right now? light-headedness, dizziness, what have you. 20 21 Q. In general, yes, right. 21 And isn't that telling you as an individual that, 22 A. Yes. 22 Hey, I need to take a break. I need to get in the Q. I mean, they know how much sleep they got the shade. I need to be doing something different and get night before? 24 out of the heat. Right? 25 A. Yes. 25 A. Oh, I think it's great if you can use that as an Page 85 Page 83 Q. They know if they were out drinking the night early warning sign. 2 before? 2 So there's two. You can use it as an early 3 A. Yeah. I didn't know if you were talking about 3 warning sign for yourself to make modifications to while someone's having a heat stroke. The answer would protect yourself. 5 definitely be no. 5 But then also the work setting, if you have But if you're talking about in general, people who are experiencing this; that's also a great 6 obviously, yes. early warning sign that this may soon affect other 8 Q. Right. What I'm trying to find out is, so you 8 employees or, you know, is something to be aware of. can have an individual -- if somebody feels -- I think Q. How do you make the distinction if you have, for 9 you referred to Mr. Marsing -- maybe he said that he 10 example, one individual that says: I'm feeling a little felt a little dizzy or what have you. We know he bit dizzy or what have you because of the heat. But you certainly didn't seek medical attention. 12 have 60 other people on that are working that do not? 13 He didn't have an injury, while he may say that 13 A. That's a good question. Same --14 it was hot and he felt a little dizzy. 14 MR. COX: Doug, excuse me. Just because a person is in the heat, might feel Form and foundation. 15 a little dizzy, they want to take a break; that doesn't THE WITNESS: So I guess a similar question 17 mean that they suffered a heat stroke, does it? 17 like, you know, the football field. One person 18 A. Oh, no, no. Yeah, so to clarify, he may have had 18 has a heat stroke one day and the 99 others 19 an injury that day. Just because he didn't report it 19 don't. BY MR. SCHMITT: doesn't mean he didn't have a heat illness. 20 But there's many different kinds of heat 21 Q. Right. 21 illnesses. So I agree with you that he did not have a 22 A. That's a good question. But heat stroke, you

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heat stroke.

Q. Right, or heat exhaustion?

A. Right. So, like, he could have possibly suffered

23 24 know, doesn't thankfully affect large numbers of people

at the same time. And it's just on a given day, why is

a particular person affected? We don't really know that

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Page 86 Page 88 warranted he be removed from the job site? 1 for sure. 2 A. Well, it was his status going into the truck that But you had people who had -- you know, who were 2 struggling or had issues in the heat on the previous I recommend being warranting. Because he's now -- he days. And you definitely have intense exercise. And worked, struggled; worked, struggled. So now that's --4 you definitely have hot conditions. that's enough to say something's up? And you have a guy, Guillermo -- based on 6 What's unique for Guillermo this day? We haven't everything I read -- never had an issue in the heat had a problem with Guillermo in the last whatever --7 8 before and is a good, solid worker. So if he's 8 20 or 30 days. Today he can't get through the morning. struggling during that morning -- You know, you have 9 And collectively there's a lot of, kind of, reviewed all of the things that Union Pacific has in 10 X-factors that you're looking at here. You know, a place. And I agree with you that they have those items 11 really hard Friday in the heat, first day he moved in place. But they weren't all implemented on that there. So that's just an incredibly stressful day from, 12 particular day. like, a heat physiology perspective. 13 13 14 Q. Which ones weren't? 14 And another hard workday on Saturday. So two 15 A. For instance, they didn't have a cooling station 15 hard, long workdays. 16 near Guillermo while he was working. 16 And then Sunday you're presented with heat again 17 Q. They had air-conditioned trucks. 17 and work. And he's struggling there in the morning. He 18 A. I know. But air conditioning for someone 18 can't even get out in the morning. He struggled -- he suffering a heat strokes, the cooling rates are went back to work -- work, struggle; work, struggle. nonexistent for air conditioning versus if you had, That's enough that I would think you'd have someone out; 20 20 21 like, you know, more aggressive cooling modalities. or at least have -- you know, change the work that he's 21 22 Just giving an example. doing; keep a really close eye on him. You know, it just didn't seem like people were Q. Okay. 23 A. Another example would be you tell people to look 24 really attentive to him. out for each other. But I don't think Guillermo had 25 There's no indication that he was a wimp or was, Page 87 Page 89 supervisors near him that morning that were looking out you know, making up any of these things. So it seems for him because no one would have had him continue like he was genuinely struggling. 3 working. Q. Well, I mean, you certainly agree that if someone says: I'm feeling a little hot. I want to take a break If he was already struggling, he's extremely 5 susceptible to future problems that day. So I would and go sit in the shade for a while and cool down; have not had him go back. I would have sent him back in that's certainly appropriate? and say: You know what? Why don't you rest up because A. I don't think it was a little hot, though. I 8 you've now fallen out a couple of times. mean, I think he legitimately -- if he was a little hot, 9 We didn't have to get to the point of the last 9 I think he would have kept going. I mean, I think he 10 time. was legitimately really, like -- he felt like he Q. So at what point do you believe Mr. Herrera couldn't continue working. That's a big deal. 11 12 should have been taken and removed from the job site? 12 Q. At which point? 13 A. Well, without a question, when he first took a 13 A. Any of those points. When he first sat down on 14 break, returned to work, took a break again -- this is his own, and then he goes to the truck on his own; both the second time right now. And then he was kind of -- I of those times he felt he can't continue working. So don't know if the word's forced or pressured to go back that's pretty important. 17 17 to work. Q. Okay. Well, if Mr. Herrera felt he couldn't 18 At that point I'm thinking that it probably would 18 continue working, then why did he continue working? 19 have been a good day to call it a day, because he's now 19 A. I don't know. I said -- I wasn't there. So I struggled two different times. said that there is colleagues who say that maybe he was 21 Q. At the point -- the second break meaning when he 21 kind of pressured back to work. 22 gets out of the air-conditioned truck? 22 But like I said, I wasn't there. So I don't know

23

24

what the decision was.

But I tell you at this point we don't even -- for

future reference -- for UP and any company -- you don't

A. Yes.

Q. What was Mr. Herrera's status then at the time

that he left that air-conditioned truck that you believe

23

24

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Page 90
                                                                                                                      Page 92
                                                                    mean I just have the flu, I have a cold, what have you.
 1 want to have it always be up to the person. You know,
   if they say, I can work, and you're looking at the
                                                                    Right? I mean, there could be many other causes; true?
                                                                           MR. COX: Form and foundation.
   person and they have a broken arm -- you see the arm
                                                                3
    pointed in the other direction -- and they say, I can
                                                                4
                                                                       Argumentative.
    continue working; you know what? They're not going to
                                                                5
                                                                           THE WITNESS: Yeah. I don't doubt for a
    have you work. I'm going to bring you in and we're
                                                                6
                                                                       second that some of those signs and symptoms
    going to take a look at you.
                                                                7
                                                                       could be due to another medical condition.
8
           Because that's just what we have to do sometimes.
                                                                8
                                                                           As I said, I'm just taking this as a whole
    We can't always think that that person is going to give
                                                                9
                                                                       when someone's been doing exercise -- hard
10
   the best advice for themselves.
                                                               10
                                                                       exercise for repetitive days in a row and he's
11
       Q. See, what I'm trying to determine is how do you
                                                               11
                                                                       in the heat. And all that together with these
   make the distinction on which individual needs to be
                                                               12
                                                                       signs and symptoms, my thought process is that
12
   taken from the job site and which doesn't?
                                                               13
                                                                       let's look into this. It's potentially a
13
           Let's say you have an individual that says: I
                                                                       concern; and it's very likely a heat illness.
                                                               15
15
   need to take a break here mid-morning around 10:30 or
                                                                   BY MR. SCHMITT:
16
    so. I need to go stand in the shade.
                                                               16
                                                                       Q. All of these signs and symptoms that he had --
17
           He stands in the shade for a while, takes a
                                                               17
                                                                    that he claims that he had could have been due to other
18
   break, and then comes back.
                                                                    conditions?
           A couple hours later he sits in an
                                                               19
                                                                       A. Well, theoretically, yes.
   air-conditioned truck for 30, 60 minutes and comes back.
                                                               20
20
                                                                       Q. Right.
21
           But throughout this time he's not exhibiting any
                                                               21
                                                                           MR. SCHMITT: Let's go head and take a
22
   confusion. He doesn't say to anyone that he has
                                                               22
                                                                       break.
   diarrhea, nauseous, dizziness, light-headedness,
                                                               23
                                                                           (Recess taken from 10:12 a.m. to 10:24 a.m.)
   confusion; none of the above. He's simply taking breaks
                                                               24
25 and he's coming back.
                                                               25
                                                       Page 91
                                                                                                                      Page 93
       A. If someone's just taking breaks and exhibiting no
                                                                    BY MR. SCHMITT:
    signs and symptoms; I mean, I would obviously think they
                                                                2
                                                                       Q. Doctor, you were discussing your opinion that
3
    could go back to work.
                                                                3
                                                                    Mr. Herrera suffered an exertional heat stroke.
                                                                           Did you review any of the medical records from
           But, I mean, obviously if you investigate, you
                                                                4
 5
    know, the scene. If the person is just taking a break
                                                                5
                                                                    his admission at the Onaga Hospital that day?
    because they're just tired, then they can keep working.
6
                                                                6
       Q. Right.
                                                                       Q. And did you note what was the diagnosis that was
       A. But, I mean, I think he reported -- he's
8
                                                                    made by the emergency room professionals at Onaga
    exhibiting signs and symptoms of a heat illness.
                                                                    Community Hospital when they actually saw Mr. Herrera
                                                                9
10
       Q. All of these items that we discussed earlier?
                                                               10
                                                                    that day?
11
       A. Yeah. I'm not saying all of them were every
                                                                       A. Yeah. I was just going to pull up something
                                                               11
   moment. But all of them at some point were reported.
                                                               12
                                                                    here.
       Q. Well, that he claims that he has.
13
                                                               13
                                                                           So I'm just citing -- citing 166 on Page 30.
14
       A. Well, and other people around him report that he
                                                                    (Pause.)
                                                               14
    exhibits some of these items or that he's telling them
                                                               15
                                                                           I might not have the page.
   he's having these items.
                                                               16
                                                                           So his diagnosis was heat exhaustion. It was
           I don't -- there's no reason to believe that
                                                               17
17
                                                                    Page 28. I apologize.
   he's, like, making them up in the morning. You know
                                                               18
                                                                       Q. And is that important to you that the doctors
18
19
    what I mean?
                                                               19
                                                                    that actually saw him that day, the emergency room
20
       Q. Well, sure. Here's what I'm trying to figure
                                                               20
                                                                    trained personnel, diagnosed him with heat exhaustion
   out, is you could have someone show up to a job site or
                                                                    not heat stroke?
                                                               21
    anyplace, and we could be sitting in this
                                                               22
                                                                       A. Well, it's certainly something I took into
    air-conditioned room; and I can say, Doctor, I'm feeling
                                                               23
                                                                    consideration.
23
    a little nausea, a little dizziness, what have you.
                                                               24
                                                                           A lot of medical providers in emergency rooms and
25
           It doesn't mean it's due to the heat. It might
                                                                    like EMT-EMS people will often misdiagnosis a heat
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Page 94 Page 96 1 stroke as heat exhaustion, unfortunately. recognized and universal guidelines in order to apply And in this case you have the additional caveat 2 whatever number it is to the patient? that so much time had passed that his body temperature A. It's one of the -- it's obviously subjective. 3 is not reflective of what happened, obviously, at 1:30 But it's one of the inventories that's used, yes. 4 when he initially was called for medical care. Q. All right. And, for example, you might typically Q. Okay. see a Glasgow Coma Scale for EMT people that arrive at A. But in that medical report on the hospital that an accident scene? 7 day, the medical providers did say that the patient was 8 A. Oh, yeah, yeah. I mean, you'll often see EMT-EMS confused in addition to other items that are consistent 9 when they're bringing in a patient to the emergency with heat stroke. room, that's one of the first things they'll report is a 10 10 11 And then given the time that elapsed from when he 11 GCS of, like, maybe what they saw at first and what it was -- initially sought -- or when his supervisor is now; so you can see either someone's getting better 12 12 initially sought care for him, those things collectively 13 or worse in that progression. 13 make me think he had a heat stroke. 14 Q. And 15 is the highest you can get, meaning 15 they're normal? 15 Q. The confusion and other things, to use your term, 16 that were noted with Mr. Herrera at the time that he was 16 A. Yes. There's three different components of a 17 seen at Onaga can also be consistent with heat 17 Glasgow Coma Scale. One is ranked out of six, one's out 18 exhaustion? of four, and one's out of five. And so they add up to A. Okay. Well, that's a good point. With heat 15. And the lowest of each is a one. That's why the exhaustion you don't usually have mental compromise -lowest score you can get is a 3. 20 20 21 especially mental compromise that would last so many Q. What's the significance of Mr. Herrera having a 2.1 hours beyond the incident. So that would be quite rare. Glasgow Coma Scale in the emergency room of a 14? Q. So how long can -- well, I think you said A. So that would indicate that he is doing pretty 23 "usually." So you can have mental compromise, first of 24 well at that point. 25 all, with heat exhaustion? 25 Remember the Glasgow Coma Scale is not like it's Page 95 Page 97 A. Possibly. And it would be usually quite mild and a high end. It's really a cursory look to see if 2 usually dissipates quite rapidly. So it usually someone's, you know, like after someone has a gunshot or would -- you know, within 15 minutes, 30 minutes it someone is losing blood or going into shock; things like 3 would be gone. And even if it's there, it would be 4 that. 5 mild. 5 So it's a general indicator that at that point So as an example of a couple of things that were he's stable and he's able to communicate with the 6 noted upon admission; they said he was lethargic, not medical provider. oriented to time, unable to orient purpose, slowed 8 Q. Well, but there's three different areas that are speech, confused, dizzy, weak. being assessed? 9 9 10 Those are some of the things -- and muscle 10 A. Correct. weakness. Those are just some of the things that were O. And those three areas are? on his report upon entering. 12 A. It's verbal, your eyes -- visual, and cognitive Q. What's a Glasgow Coma Scale? 13 13 or motor function. 14 A. The Glasgow Coma Scale is an inventory that's 14 (Off the record.) used in emergency settings that can range from a score THE WITNESS: So I definitely think he's 15 of 3 to 15. 15 is a max score that would be kind of 16 stable at that point. I don't think we're like a normal response for like us sitting here right 17 refuting that at this point. 18 now, hopefully. 18 But, I mean, obviously, remember -- I don't 19 A 3 would be unable to orient to place and 19 know -- 15, 30 minutes prior to that Glasgow respond to commands, things like that. 20 Coma Scale getting obtained his supervisors Q. Is the Glasgow Coma Scale something that is used 21 decide to bring him to the hospital. So they're 21 routinely by medical professionals in evaluating the 22 not happy that he's getting better. And they status of a patient? 23 decide to bring him across the street or nearby, 23

24

wherever the hospital was.

A. Yes. I'd say it's very common.

Q. All right. And it's a standard that is -- has

24

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Page 98
                                                                                                                      Page 100
 1 BY MR. SCHMITT:
                                                                        five hours after your incident in the heat,
                                                                1
                                                                        that's a big deal.
        O. Well, isn't the evidence that it was Mr. Herrera
                                                                2
    asked to go to the hospital, not the supervisor. The
                                                                    BY MR. SCHMITT:
                                                                3
    supervisors repeatedly asked him: Do you want to go to
                                                                4
                                                                        Q. Well, it's in the admission assessment by a
    the hospital?
                                                                    nurse, Ashley Bean, R.N.; correct?
       A. Yes.
                                                                6
                                                                           And in the same paragraph where she says patient
 7
        Q. He says, No.
                                                                7
                                                                     is confused, this nurse also says Glasgow Coma Scale of
 8
            He then at the end changes and says: Yeah, I
                                                                8
                                                                    14; right?
 9
    think I want to go. And they immediately took him.
                                                                9
                                                                       A. Yeah.
10
    That's the evidence.
                                                                10
                                                                        Q. So wouldn't that appear to you to be a little bit
11
       A. Right, yes, yes.
                                                                11
                                                                    inconsistent?
12
            MR. COX: Form and foundation. Omits
                                                                12
                                                                       A. Not necessarily. I mean, she gave him one point
13
                                                                    off on one of the three domains. And that would make
       testimony.
                                                               13
14
            THE WITNESS: So Guillermo volunteered that
                                                                14
                                                                    sense to me.
       he'd like to go to the hospital at that point.
15
                                                                15
                                                                           You don't have to have a low GCS. You know, that
16
   BY MR. SCHMITT:
                                                                    doesn't have to be associated with being confused.
                                                               16
17
        Q. Right.
                                                                17
                                                                           I mean, it's consistent. She says not oriented
18
       A. Okay. At earlier times he said hotel or wherever
                                                               18
                                                                     to time, unable to orient purpose, and is confused.
    he was staying or other things like that.
                                                                19
                                                                           I mean -- but some of his basic motor functions,
20
        Q. Correct.
                                                                    his ability to verbally respond and be able to visually
                                                                20
21
       A. Yeah. I told you when people are having a heat
                                                                     respond; I mean, they were there. So thankfully --
                                                               21
    stroke -- what he says, it's not that relevant for me
                                                                22
                                                                           I mean, this could have been a lot worse,
    just because I've lived through -- I've treated 225 heat
                                                                     obviously. I mean, he could have, you know --
                                                               23
    strokes. And I've had people completely unconscious to
                                                                24
                                                                        Q. Sure. But in looking at these records, though,
    people who I was able to have normal conversations with.
                                                               25
                                                                     in regards to the actual diagnosis of what this patient
                                                       Page 99
                                                                                                                      Page 101
        Q. So if you assume that Mr. Herrera as -- that he
                                                                     has, a nurse can make all sorts of observations: I
    claims during the day he was having confusion, he was
                                                                2
                                                                     think he's confused, he doesn't appear to have this, he
    completely out of it, maybe -- he uses a term almost
                                                                     doesn't appear to have that.
 3
                                                                3
    comatose, unconscious; pretty extreme words.
                                                                 4
                                                                           But when somebody does a medical assessment and
 5
            But then he goes to the hospital and he's
                                                                5
                                                                     diagnosis under a Glasgow Coma Score -- which is a
    assessed with a Glasgow Coma Scale of 14.
                                                                     medically-significant test that's performed and renders
 6
            Wouldn't that indicate to you that he was
                                                                     a specific diagnosis -- that he has a 14 out of a 15 --
 8
    improving throughout the day; and he's actually better
                                                                     which is perfect -- doesn't that appear to you to be a
                                                                8
    by the time he gets to the hospital than what he was
                                                                9
                                                                     more accurate assessment than simply these generalized
10
                                                                10
                                                                     statements from a nurse that: Well, he has some
11
            MR. COX: Form and foundation.
                                                                     confusion, he has this, he has that?
                                                                11
12
            THE WITNESS: No, I think his temperature
                                                               12
                                                                       A. Well, I wouldn't --
                                                                           MR. COX: Form and foundation.
13
        gradually came through through the course of the
                                                                13
14
        day and the couple hours he was at the cooling
                                                               14
                                                                           THE WITNESS: -- I don't want to discredit
        station or however long he was there.
                                                                       her. I don't think that's fair. I think
15
                                                                15
16
            So that decrease in temperature and the fact
                                                                       they're both accurate.
17
                                                                           She did a GCS, it's 14. And she also noted
        that he was now resting for a while; you know, I
                                                               17
        certainly think he stabilized. And I think the
                                                                       he's confused. I don't think they have to be
18
                                                                18
19
        GCS score backs that up.
                                                                19
                                                                       mutually exclusive of each other.
20
            But, I mean, they still note at the hospital
                                                                     BY MR. SCHMITT:
21
        that he's confused. I mean, that's not him --
                                                                21
                                                                        Q. All right. His rectal temperature at the time at
22
        not Guillermo saying he's confused. They're
                                                               22
                                                                    the hospital was what?
23
        assessing that he's confused.
                                                                23
                                                                       A. I have it. 99.6.
24
            So that's really relevant. If a medical
                                                               24
                                                                        Q. Yes, 99.6. I'll just show you.
25
        provider says you're confused and it's four or
                                                                           And I know you're looking it at a summary --
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Page 102
                                                                                                                    Page 104
       A. Yeah, that's fair. Yeah, that makes sense to me.
                                                                    minute. That's my best estimate.
                                                                       Q. So if we put it in Fahrenheit -- I think here
        Q. Right. And you're assuming that how much time
                                                                2
   has passed from the time that he departs the job site
                                                                    they're measuring probably this rectal temperature in
    until he arrives at the hospital?
                                                                    Fahrenheit, 98.6?
       A. I have to check. I feel like it was 4:30 that
                                                                       A. Yeah, that one -- Yeah. So that's Fahrenheit,
                                                                5
    he's admitted to the hospital, ballpark.
                                                                6
                                                                   yeah.
 7
        Q. Right.
                                                                7
                                                                       Q. So Fahrenheit, just regular cooling, somebody
       A. And I -- like I said, I was estimating that it
                                                                8
                                                                   sitting in an air-conditioned vehicle, drinking cold
    was around 1:30 that the process begins to get him out
                                                                9
   of the job site.
                                                               10
                                                                       A. It would be probably just a little higher than
11
        Q. So if you assume three hours had passed from the
                                                               11
                                                                   that in the context of those body temperatures.
   time they depart the job site to arriving at the
                                                                    Probably like .06 or .07 degrees Fahrenheit.
   hospital with a rectal temperature of 99.6; what do you
                                                                       Q. So over, let's say, an hour, how much -- or
13
                                                               13
    believe the rectal temperature would have been, say, at
                                                                   30 minutes, what would be the cooling -- rate of
15
   1:30?
                                                               15
                                                                   cooling?
16
       A. That is way too much to estimate. I would risk
                                                               16
                                                                      A. It's -- Like I said, we don't know for sure
17
    my -- my professional stature if I threw a number out.
                                                               17
                                                                   because it's -- I mean, in the air conditioning --
   That's why I didn't do it in this case.
                                                               18
                                                                           I didn't get great detail on exactly what he did
           When I have more definitive information, I do it.
                                                               19
                                                                    in the cooling station.
   So in some cases, if he -- someone gets to the hospital
                                                               20
                                                                           So -- but in that three-hour stretch, even if you
20
21
   and rectal temp is 103.8; and I know 24 minutes earlier
                                                                    just said he was .05 or .07 degrees Fahrenheit per
                                                               21
    they collapsed; and in 21 of those minutes they did cold
                                                                    minute -- I mean, that's about what you would do, I
   water immersion; I could give you a better idea of what
                                                               23
24 the initial temp was because I know the cooling rates.
                                                               24
                                                                          Give me one second. (Pause.)
25 I know the person's -- You know what I mean? Like
                                                               25
                                                                           Seven, that's like, what? 180 minutes? So, I
                                                                                                                    Page 105
                                                     Page 103
    there's things I could figure out.
                                                                    mean, obviously, the cooling is only going -- even if
           There's too many X-factors here to really give
                                                                    it's just .05 -- the cooling, he probably -- he was
    you an accurate information.
                                                                    probably back down to resting, I mean, probably, like,
 3
                                                                    in the 90-minute range or two-hour range after that 1:30
        Q. If you have whole body cold water immersion,
    what's the rate of cooling?
                                                                5
       A. If it's done well, it's about .2 degrees Celsius
                                                                           If you did 120 minutes -- I mean, 120 minutes
                                                                6
    per minute; which is ballpark of, like, .35 degrees
                                                                    times .05; that would be two hours of cooling. A .05
   Fahrenheit per minute.
                                                                    would be ballpark of what you'd see passive cooling in a
        Q. So over an hour would be what?
                                                                    cold environment. That would take someone down six
 9
                                                                9
10
       A. Well, an hour's a long time. So, I mean, like .2
                                                               10
                                                                    degrees.
   degrees Celsius per minute in cold water immersion, for
                                                               11
                                                                           That just gives you just a general sense of if he
12
   instance, is a degree Celsius every five minutes.
                                                               12
                                                                   was around 100 when he went in, that's ballpark of 4:30.
                                                               13
                                                                       Q. And in order to have heat stroke, what
13
           And then -- so when we cool heat stroke victims
14
    with cold water immersion, it's usually just 15 to 20
                                                               14
                                                                   temperature do you have to have?
    minutes because that usually gets us down three degrees
                                                                       A. I mean, I usually define it as 105 or greater.
                                                               15
    Celsius; which is -- if you put it in Fahrenheit
                                                                    Most people -- some people say 104 or greater. I'm a
                                                                    little more conservative. I usually put it up a little
17
    context, that would be, like, going from 108 to 102.
                                                               17
        Q. What would be the rate of cooling for an
                                                                   higher than most people.
18
                                                               18
19
   individual that's sitting in an air-conditioned vehicle
                                                               19
                                                                       Q. Okay. So you don't really have an estimate on
    with the air conditioning on high?
                                                                    what it was at the job site?
       A. So that's never been done in a research study.
                                                               21
21
                                                                      A. You can't -- I don't think anybody could.
22
        Q. All right.
                                                               22
                                                                       Q. Understood.
        A. So I can speculate, like, passive cooling that's
                                                               23
                                                                       A. There's just too many factors to consider that
23
```

24

share.

25

just done in, you know, like thermoneutral environments.

Probably around .03 or .04 degrees Celsius per

are not fair to -- I don't think it would be accurate to

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Page 106 Page 108 they survive -- they're going back to resting levels Q. What about in regards to any of the lab work that was done? Did you evaluate any of the lab work at the again. Onaga Hospital? 3 So -- this is nothing to do with the people that 3 you're defending -- I would have preferred him stay in 4 A. I did, yes. 4 Q. What did you find to be significant in regards to the hospital that night and be observed and be continued the diagnosis of whether he has a heat stroke or to be evaluated, and then be released the next day 7 something else? 7 somewhere around noontime. 8 A. So the results there -- the initial results that 8 Because you'll notice the person on discharge happen there do not have some of the things we 9 recommends that he not work the next day. You saw that? 10 consistently see with a heat stroke. 10 Q. Right, I did. Q. Which ones? 11 11 A. All right. So I think it would have been a much A. Just -- there's a bunch of them. But like, for better situation to make sure he didn't work the next 12 instance, the liver enzymes, ALT and AST. day by -- I know he didn't work -- but just to make sure 13 13 Q. And his results were inconsistent with a heat by just keeping him in the facility. That's what I would have recommended. 15 stroke? 16 A. Yes. 16 Q. All right. A. Because then you could have checked those items 17 Q. Right. Which other results were inconsistent 17 that I mentioned and see if they're going up or not. 18 with a heat stroke? 18 A. Those are the ones I noted right now that I can 19 Because if they're going up, then you want to -- like, they're going to -- an awesome opportunity. 20 recall. 20 So I fault some of the care that was received 21 Q. What about his potassium being low; what's the 21 22 significance of that? 22 there as well. A. There's a lot of different reasons someone's Q. Can all of the findings and the clinical 23 potassium could be low. So I don't usually -- we don't presentation that Mr. Herrera had at the time of his usually look at that as a heat stroke indicator as much. 25 admission to the Onaga Hospital -- can they be Page 107 Page 109 But the things to consider with ALT and AST is consistent with heat exhaustion? that usually takes some time to climb. So I would have 2 A. The mental compromise surprises me. The other -expected it to be elevated because I think he -- Do you 3 the GCS finding and the blood work would be consistent with heat exhaustion at that moment. know what time it was taken? Q. Let me just hand you the original records. 5 But like I said, serial measures would really A. I'm sorry, I was only asking for the favor allow us to have a better indicator. So if we did that because my eyesight is really bad because I can't see again, like, four or six hours later; that would be 8 this right now. really helpful. 9 (Off the record.) 9 Q. And with the mental compromise, that can be also 10 THE WITNESS: Yeah, I don't know -- if you 10 consistent with heat exhaustion; although I think it's 11 could just tell me -- I don't know if it's time your testimony that it would more likely or typically be 12 stamped. I don't know if it was right after he 12 more associated with a heat stroke is what you're 13 came in or not. 13 saying. Is that right? 14 BY MR. SCHMITT: 14 A. No -- well, let me clarify. So I've never seen Q. (Pause.) Well, I think it's saying 1650. mental compromise with heat exhaustion that's lasted 16 A. That makes sense. that long. That would be a unique first time for me. 17 Q. So 4:50 p.m. 17 So I have seen it mildly acutely within 15 to 18 A. So right after arrival. 18 30 minutes after an incident. 19 Q. So about 15, 20 minutes after arrival. 19 Q. Okay. And a "mental compromise" being A. Right. So I personally would have expected some specifically what, his statement of confusion? 21 of those to start to be elevated at that time. 21 A. Well, I think you just noted before the nurse had 22 But the real time you see the elevations of those 22 said: Patient is confused -are, like, 12 to 24 hours later. In fact, some of 23 O. Right. 23 those, they'll peak out at, like, 48 hours later. And 24 A. -- and not oriented to time, unable to orient then you'll start to see the gradual going back -- if purpose. And speech is slow. Patient lethargic.

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Page 110 Page 112 Mountain States Physical & Hand Therapy Functional Q. Well, you can be lethargic from a lot of reasons; Capacity Evaluation. right? A. You can be all those things from a lot of 3 3 O. Yes. reasons. 4 A. This just, I think, happened in the last month --Q. Right. ballpark. A. I'm just taking this as a collective day. The Q. Okay. guy was exercising in the heat, struggled a few times, 7 ${\tt A.}\,$ So they have a report here. In the end they talk unable to continue, seeks medical help. So those are about some lasting complications that he has still like just the things I'm processing. headaches, dizziness. 10 Q. All right. 10 Q. Okay, go slow. 11 A. I know that other things can cause that as well. 11 A. Sure. 12 Q. So the objective testing, all of the lab work, O. So headaches. You believe Mr. Herrera's 12 things that were done at the time were certainly headaches are caused by a heat stroke? 13 13 consistent with heat exhaustion; right? A. I said they can be. He didn't have issues -- I'm trying to look at Guillermo the day before the heat 15 A. Yes. 15 16 Q. So is there anything else, Doctor, that leads you stroke versus him now. And he never had issues of 16 17 to form an opinion in that Mr. Herrera suffered an 17 dizziness; light-headedness; struggling with exercise in exertional heat stroke on July 26th that we haven't 18 the heat; you know, getting fatigued more quickly. discussed? 19 Those are things that certainly have -- many of 20 A. Well, the long-term complications would be 20 the cases that we track after people have heat stroke 21 consistent with heat stroke. 21 are pretty common for long-term complications after a 22 Q. All right. Tell me about, then, what you're 22 heat stroke. relying on for the long-term complications. And just to give you an idea, at the Korey 23 A. So which documents, is that what you mean? 24 Stringer Institute we test athletes, laborers, and 25 Q. Well, you're saying Mr. Herrera suffered 25 soldiers. After they've had heat strokes, they'll come Page 111 Page 113 long-term complications -to us for what we call heat tolerance testing. And we A. Yes. do a full workup of their ability to exercise in the 3 Q. -- and as a result of that, that you believe heat and then also an evaluation of other signs and supports your opinion that he suffered heat stroke? symptoms that they exhibit. 5 A. Yes. I was just going to make a note of which 5 And we do that for a timeframe after with the items I gathered that from. hopes of them trying to eventually get back to normal 6 Q. Sure. Well, and my question is going to be: life and work. But obviously, some people can't do 8 Which long-term complications do you believe Mr. Herrera 8 suffered that were caused by a heat stroke? So this is -- what he's exhibiting is consistent 9 10 A. Okay. So one would be exercise heat intolerance. 10 with what we've seen with other people. I would say I 11 Q. Can you have exercise heat intolerance with heat was very hopeful when I was first introduced to this 12 exhaustion? 12 case in the -- I want to say winter of '16, the very first time Jim Cox contacted me, that it was still close 13 A. No. 13 14 Q. And the exercise heat intolerance is simply enough to the incident -- maybe like six months -- that Mr. Herrera saying he's not doing as well in the heat? I was hopeful that he would still have a chance to make A. That's correct. I don't -- I don't believe he's a full recovery. 17 had, like, any heat testing done. 17 And now we're getting close to the two-year 18 Q. Okay. 18 window. And this thing was at the 20-month window. 19 A. Someone correct me if I'm wrong, but I don't have 19 That now I'm starting to get worried that these things 20 20 could be permanent. 21 21 Q. What other long-term complications are you Q. Are each of these items that you identified with 22 relying -- do you believe were caused by a heat stroke? 22 current problems -- headache, dizziness, fatigue -- all A. Give me just one second. (Pause.) 23 23 of those can be due to many other medical reasons?

24

A. There's no question.

Q. All right.

So this is the document that we just said before.

So this person who did this evaluation -- it was the

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Page 114 Page 116 A. The exercise heat intolerance is not usually -- I Q. All right. Is there any other basis for your opinion that he suffered a heat stroke that we have not don't know too many things that cause that besides for someone who's compromised from a heat stroke. discussed? 3 A. No. I think we've covered it. 4 There are some other isolated things; but they 4 would have been existent from the day he was born, Q. In regards to the MRI imaging post-incident that 5 not -- you know, he's obviously had a lot of successful was done -- and we've already discussed that you're not days of exercise in the heat prior to this event. a neuroradiologist or a radiologist; right? 7 8 Q. What would be some of the other causes of having 8 A. That's correct. 9 exercise heat intolerance? 9 Q. And you wouldn't have the ability or foundation 10 A. There's some conditions that cause people to have 10 to interpret MRI imaging? 11 excessive sweating so they can dehydrate a lot faster. 11 A. Not at all. So they might struggle. 12 Q. Are you rendering any opinions at all in this 12 There's people who don't sweat at all. 13 case, Doctor, in regards to the imaging and what it 13 Obviously, you can't cool yourself down. It could be shows and when it would have first been present in 15 very dangerous. 15 Mr. Herrera? 16 There's something called malignant hyperthermia, 16 A. No. I'm very smart; I know that's outside of my 17 which is a genetic condition; where people -- they're 17 area. starting to believe there might be a connectivity with Q. Okay. What about any of the cardiology issues in 18 18 more difficulty exercising in the heat. this case? Mr. Herrera had a PFO. Are you rendering 20 So those are examples. 20 any opinions about that? 21 A. No. And there are medications that people take that 21 22 can compromise their heat intolerance. 22 Q. All right, or what caused -- or what relationship it may have had to any of the current issues that he Q. Any medications for, let's say, diabetes? A. I'd have to look into them carefully. I don't 24 suffers? know, like, the brand names of all of them. 25 A. I have no opinion on that. I know if you have an Page 115 Page 117 So usually the family are things that -- anything exertional heat stroke, a cascade of medical problems that revs up your metabolism. 2 can ensue after. 3 So for instance, ADHD medications, mood-altering 3 So, I'll just give you an example. Some people medications. have kidney problems, some have liver problems, some 5 ADHD is a good one only because I know there's 5 have muscular problems -- something called Rhabdo, research in that particular one that people's body R-h-a-b-d-o -- some people have cognitive issues, some 6 6 temperatures during exercise tend to be a little higher people have exercise intolerance. So I'm often not surprised when a heat stroke 8 on their medication versus not. 8 That makes sense because if -- anything that's 9 9 person comes to me and they have, you know, a particular increasing your metabolic rate is going to probably 10 issue. A lot of people -- I'm dealing with a couple generate more heat. So that's a possibility. right now that just came to see us that have slurred 12 Q. What about medications for hypertension? Can 12 speech still, like, 18 months after the heat stroke. thev --13 13 We have noted, you know, decreases in IQs because 14 A. It could. I'd have to look into all the we have, you know, testing beforehand and after. 14 different classes and families. I'm not -- that's not 15 So I'm never surprised that, you know, other my -- the pharmacological side of heat intolerance is medical issues come into play after someone has a heat 17 17 not my expertise. But I certainly have looked into it. stroke; because when someone has a heat stroke, there's I'd have to look at the specific drug and then 18 a massive insult to the body. You know, your body can 18 19 look at the literature and see, obviously, what's in 19 only handle a very finite time of being extremely those particular drugs. 20 Q. All right. Any other long-term complications 21 21 So I'm always open-minded to the potential that Mr. Herrera's suffering that you believe are 22 complications that heat stroke cause for a person.

23

24

brought to.

23

related to a heat stroke?

A. Those are the ones that I was -- my attention was

But when you're talking about MRI's, someone

having a stroke, or other things like that; that's

definitely outside of my wheelhouse.

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|--------|--|-----|---|
| 1 | Page 118 Q. Okay. And so you're not rendering any opinions | 1 | Page 120 A. Yes, yes. |
| 2 | whether this right lacunar infarct as revealed on MRI | 2 | Q. All right. And |
| 3 | imaging has any relationship whatsoever to this July 26, | 3 | A. I just didn't see anything implemented for that |
| 4 | 2015, incident; true? | 4 | day. |
| 5 | A. I'm not saying yes or no either way. I don't | 5 | Q. Tell me what you mean. |
| 6 | feel that that's in my area of expertise. | 6 | A. Like in terms of modifications to the work that |
| 7 | Q. So if we sort of take a step back and then look | 7 | day; like more breaks, more formal breaks |
| 8 | at what your opinions are in regards to whatever medical | 8 | 0. And |
| 9 | conditions he suffered, you believe he suffered a heat | 9 | A based on the environmental conditions. |
| 10 | stroke for the reasons that we've discussed; correct? | 10 | Q. So it's your understanding that there were not |
| 11 | A. Yes. | 11 | increased breaks taken that day? |
| 12 | Q. And that he suffered long-term complications as a | 12 | A. Not like formal, like, that the bosses mandated |
| 13 | result of that stroke, which you identified, which are | 13 | that the employees take particular breaks at particular |
| 14 | based on the fact he didn't report any of those | 14 | times. |
| 15 | complications before July 26, 2015. But had those | 15 | Q. And what in your opinion should have occurred on |
| 16 | complications reported after July 26 of 2015; is that | 16 | this day, on July 26 of 2015, in regards to breaks? |
| 17 | accurate? | 17 | A. Well, it's not a simple answer. You'd have to |
| 18 | A. Yes. | 18 | think about the work setting and the amount of the |
| 19 | Q. All right. Doctor, going back to your report, is | 19 | intensity of the work that they're doing, also factoring |
| 20 | there anything else if we just look at Consideration | 20 | in the environmental conditions and if they're |
| 21 | No. 1 that forms any of your opinions for this | 21 | acclimatized or not. |
| 22 | discussion identified in therein that we haven't | 22 | But generally speaking, you'd want to have, like, |
| 23 | already covered? | 23 | a formal break every hour; and in extreme conditions of, |
| 24 | A. I think we did that very extensively just now. | 24 | like, 15 to 20 minutes. |
| 25 | Q. Right. Consideration No. 2, it appears as though | 25 | Q. All right. |
| | Page 119 | | Page 121 |
| 1 | these are more just general statements about things that | 1 | A. And then, obviously, if it's, you know so |
| 2 | can address or that are important in regards to | 2 | let's just say that's the most extreme. And then |
| 3 | heat-related illnesses; is that fair? | 3 | something else would be, like, you know, eight minutes |
| 4 | A. Yes. | 4 | every hour; and then something else is You know what |
| 5 | Q. And that pretty much speaks for itself? | 5 | I mean? |
| 6 | A. Yes. | 6 | So we do this in many, many different settings. |
| 7 | Q. And No. 3, then what you're doing is you're then applying those general issues in No. 2 to this | 7 8 | So that the first group might be five to eight, you know, or eight to ten minutes an hour. The next thing |
| 8 9 | | 9 | |
| 10 | particular case; is that right? A. Yes. | 10 | might be 15 to 20 minutes an hour. The next thing might be something more based on the more extreme |
| 11 | Q. All right. In regards to if we just I | 11 | circumstances. |
| 12 | don't want to take too much time but is there | 12 | The military has, you know, strict guidelines for |
| 13 | anything in particular in regards to Consideration No. 3 | 13 | those. |
| 14 | that you consider important here that we haven't already | 14 | And so we have them even in high school |
| 15 | covered in your testimony thus far? | 15 | athletics we've established them. |
| 16 | A. No. I think I said it earlier. I think with | 16 | Q. And so your opinion is that Union Pacific was |
| 17 | certain environmental conditions that the any work | 17 | required to have mandatory breaks every hour that would |
| 18 | settings I'm not saying just you guys any work | 18 | increase up to 15 to 20 minutes per hour once you get to |
| 19 | setting or athletic setting, whenever you're doing | 19 | the |
| 20 | physical labor; you should have a sliding scale where | 20 | A. Well, I'm not yeah. |
| 21 | more environmentally stressful there's modifications to | 21 | Q extreme? |
| 22 | the work-to-rest ratio. | 22 | A. I'm not requiring. I'm suggesting to UP just |
| 23 | Q. You're aware Union Pacific does have procedures | 23 | the benefit of having something that's more formal is |
| 24 | and protocols in regards to its work-to-rest ratio; | 24 | that there are thousands of employees that work across |
| | | 1 | |

25 true?

25 the country. They probably have a variety of experience

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Page 122
                                                                                                                     Page 124
 1 with the heat.
                                                                1
                                                                   they wanted?
                                                                      A. Yes.
           So you might have someone who is more of a rookie
                                                                2
    going out there and them not knowing exactly, like,
                                                                3
                                                                       Q. And you and --
                                                                       A. I think they have that in place already.
     should I do more breaks? Should I not? How long should
                                                                4
                                                                       Q. Yeah. And you would agree that that's a good
 6
            If you have some more formal guidelines, I think
                                                                6
                                                                   practice?
                                                                      A. Yes, yes.
    it evens the playing field for people.
                                                                7
 8
           I also think it's extremely protective having
                                                                8
                                                                       Q. All right. Anything else here, Doctor, in
 9
    formal rest breaks; because one, you almost quarantee
                                                                   regards to Consideration 3 that we haven't talked about?
                                                                      A. I don't think so. I feel that we've done well
10
    people can hydrate. You have a chance for your body
                                                               10
                                                                   there.
11
    temperature to lower.
                                                               11
                                                                      O. No. 4.
12
           But in addition to it lowering, if you didn't
                                                               12
   have the break, then the temperature would be going up
                                                                       A. So we discussed Point A already, because I
13
                                                               13
    because you'd be exercising still.
                                                                    mentioned to you that people who have heat stroke really
                                                                   aren't often in a situation to self-report their signs
15
           The fatigue, you know, is a big issue. It
                                                               15
16
   dissipated a little bit. So anyway, it's just -- I
                                                                   or symptoms.
                                                               16
17
    mean, I know they won't get as much work done in that
                                                               17
                                                                       Q. Let me just also make sure I'm clear on that. So
   particular day. But if you can mitigate the medical
                                                                   a heat stroke person may not be able to accurately
    issues and you keep more people, you know, in the game;
                                                               19
                                                                    assess their condition; but nevertheless, it is
20
   is it worth it for the long haul?
                                                                    important and a good idea to actually talk with that
                                                               20
21
        Q. So you recommend that Union Pacific have breaks
                                                                    individual and ask them how they're doing; true?
                                                               21
    every hour starting at five minutes; and then increase
                                                               22
                                                                      A. Absolutely, yes.
   those when you get up to extreme heat conditions up to
                                                                       Q. All right. You're just -- it's your
    the point of 15 to 20 minutes per hour?
                                                                   understanding or opinion that it may not always be
25
       A. The charts that are -- the recommendations that
                                                               25
                                                                    accurate? It will be accurate in some situations; but
                                                     Page 123
                                                                                                                     Page 125
 1 are out there that I'd recommend, they factor in three
                                                                   other situations it may not?
    things. It's the intensity of the activity, the
                                                                      A. Right. That's correct.
   environmental conditions, and the heat acclimatization
                                                                       Q. Okay. Anything else?
                                                                3
   status of the individual.
                                                                       A. (Pause.) I think there was somewhere in your
 5
           So if you have a person who's gone ten straight
                                                                5
                                                                    materials -- I have to -- it say Page 29 -- dry, hot
   days in high heat humidity conditions, they're going to
                                                                    skin with no sweating. And there was a couple
 6
   be better able to handle it than someone who is on
                                                                7
                                                                    depositions.
 8
   Day 1.
                                                                8
                                                                           This is just a word of advice for your company.
           If you have high intensity, but low heat; yeah,
                                                                   I would get that stuff out of the materials.
 9
                                                                9
10
    they probably, you know, can handle things with much
                                                               10
                                                                           All heat strokes are still sweating at the time
11
    less rest breaks.
                                                                    of the incident. If they have dry skin is something
12
           But if you're doing high intensity, high heat,
                                                               12
                                                                    that came from the classic heat stroke literature, which
   and they're not fully heat acclimatized yet; obviously,
                                                                    is a different kind of heat stroke.
13
                                                               13
14
    those would be the most conservative situations.
                                                                           I'm going to personally permeate it into the
                                                               14
           So they have paradigms like this; Othe military
                                                                    medical literature a little bit; but it has nothing to
   has them and athletics. And so that would be my
                                                               16
                                                                    do with exertional heat stroke.
                                                                           So unfortunately -- and this happens not just in
17
   recommendation.
                                                               17
18
        Q. Sure. And that would be a good practice -- it's
                                                               18
                                                                   your setting, but a lot of people -- in fact, we've been
19
    your recommendation that it would be a good practice for
                                                               19
                                                                    working with OSHA to get it off of government websites,
    Union Pacific to have, again, established protocols for
                                                                    because people sometimes look for dry skin as an
                                                                    indication of heat stroke. And so when they see someone
21
   breaks every hour --
                                                               21
22
       A. Yeah.
                                                               22
                                                                   copiously sweating, they're assuming it's not a heat
        Q. -- say, five minutes; increase those up to 15,
                                                               23
                                                                    stroke.
23
```

24

20 minutes every hour as this is getting extreme; and

even allowing individuals to take more breaks whenever

Just as an example, of the 225 heat strokes I've

dealt with, they all were sweating at the time that I

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Page 126 Page 128 whole body immersion utilized to immediately cool the 1 was caring for them. 2 So we're trying hard to get that out of some of patient; correct? the recommendations that are out there. A. I said if appropriate medical staff is on site. 3 Q. So this recommendation about having dry, hot skin 4 Q. Oh, if they are? with heat stroke; that's even still being expressed by OSHA and the Federal Government? Q. So if appropriate medical staff are not on site, then --A. Up till today I can't tell you for sure. About 7 8 six or nine months ago we were able to get some stuff 8 A. I don't recommend cold water immersion being set 9 up, you know, by nonmedical people. 10 But yes, it is out there right now. So we need 10 Q. And you --11 to get -- like, so, I don't fault your supervisor. 11 A. I would use other -- I would recommend -- just as A couple people in the depositions noted that 12 an FYI, I do think one thing you guys should consider they were looking for dry skin. So I don't fault them moving forward for cooling stations is having a cooler 13 13 that that's what is there. I'm just saying in the filled with ice water and towels. It's much better than 15 future we want to make sure that's not accurate. 15 just cooling --16 In the athletic/military literature that was --You know the little packs that people use? 16 17 we're 15 to 20 years removed from that being included. 17 They're highly inefficient. They do not give you good 18 Q. Can you have a heat stroke -- exertional heat 18 cooling rates. So as an example, you'll hear -- like, I stroke victim have dry, hot skin? 19 think one of the things your company recommends is like having cold packs on the peripheral arteries. So that 20 A. You could, yes. 20 21 Q. And you're saying that that's not always the would be like neck, groin, armpits. That cooling rate 21 22 case --22 might only be like .05 or .06 degrees Celsius per A. It's just not likely -- well, it's mostly not the 23 case. 24 Whereas if you have a cooler filled with ice 25 25 water and towels and put freezing, cold, wet towels all Q. Okay. Page 129 Page 127 A. 100 percent of the time it's not happened for me. over their body; it could be .12 or .13; which would be 2 But I think there's probably times you would possibly twice as effective and still super cheap; because you 3 see that. just need any kind of just Gatorade cooler with ice And I think some of the circumstances would be 4 water and towels. someone had a heat stroke and then you don't find them 5 And if you get a good cooler, the ice can stay 6 for 30 minutes; right. So like some runner out in the for the whole day. So it would be just filling it up in woods or a mountain biker or a worker in a remote 7 the morning. setting and they're -- you know, they haven't exercised 8 So that's just something to consider. for the previous 30 minutes. They're dry when you get I'm not holding anyone accountable in a situation 9 10 to them. But they still had a heat stroke 30 minutes to have a cold immersion tub set up, because that's a 10 11 before. very intense process. 12 So I think it certainly could happen. I just 12 Q. All right. 13 don't want to make that the end-all-be-all that you're 13 A. Yeah. And I would want medical professionals 14 doing assessment based on. So that's just something to 14 involved with that. Q. All right, fair enough. And so you're not relay back. 15 16 Q. Okay. Anything else in regards to Consideration expressing an opinion that Union Pacific have had a cold 17 water immersion on site in this case? 17 18 A. Let me just look at this last part, here. 18 A. No. I just -- I gave you the recommendation just 19 (Off the record.) 19 now of what I feel would be optimal and very BY MR. SCHMITT: cost-effective and very convenient. 21 Q. In fact, let me ask you in regards to the 21 Q. All right. Anything else in regards to your 22 section where we're talking about dry, hot skin --22 opinions in Consideration No. 4 that we have not --23 A. Just on Page 5, I do recommend that you guys 23

24

Q. -- you also indicated that if appropriate medical

staff aren't on site, you would recommend having a cold

consider checking the environmental conditions through

the day at the work setting. I don't know if that's

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Page 130 Page 132 1 done consistently right now. It is a few things to as a gold standard. So there's plenty of evidence to consider. indicate that it's a better way to go. 3 Obviously, you have the morning briefing, which 3 Q. So it's a recommendation by you? is great. You're educating people; you're making them 4 4 5 aware. 5 Q. But you're certainly not saying that Union 6 But obviously, the conditions during the day Pacific violated -might be even different than what you report in the A. No. 7 8 morning. It could be worse than you thought it was 8 Q. -- industry standard by not having WBGT on site; 9 going to be. 9 10 And the microenvironment that they're working in 10 A. No. That I agree with. So my recommendation 11 can be more extreme than what that foreman is getting 11 even today would be to still be tracking temperature or from a weather report; right. So he's getting his heat index on site for the stressors they're dealing weather station report from five miles away. But then with. 13 13 you go out to the track -- hugely sunny day, no shade, 14 Q. All right. you're on this hot track, you have hot equipment around 15 A. So I think we're -- that one's good. you -- your microenvironment might be ten degrees hotter I believe his medical attention was delayed. 16 17 than the weather station report is giving you at that 17 That's in Point C there on Page 5. I had mentioned that same time. 18 to you before. So we highly encourage war fighters in basic 19 Q. Yes, let me ask you about this. So you're citing training, laborers, athletes to always do measurements 20 the Federal Railroad Safety Act 49 U.S.C. 20109. And 20 21 on site because your environment could be different. you're citing some language as contained in that 21 22 So a good example is in athletics, turf fields, statute; right? sometimes they're quite warmer than grass. A. Yes. 23 And you want to have your recommendation from 24 Q. But in regards to your note or your opinion that what you're dealing with right then. So that's all from 25 Guillermo's treatment was delayed, what's the basis for Page 131 Page 133 there. that opinion? Q. Is use of an anemometer, is that a good practice? 2 A. Oh, the fact that his -- well, there's a few A. It is if it's on site, like at their work 3 items. But I think the big one is at 1:30 someone calls -- clearly he's in distress. They call a setting. Because like if you go back to wherever --Onaga, wherever their station was, it could be 40 miles 5 supervisor. They get a car there. And it's three hours away; and it's not the same microenvironment of being approximately before he actually is -- receives medical with that metal and steel and the tracks. You know, 7 attention. 8 it's a very unique work environment. 8 Q. So am I correct, though -- because it's your And there's something called WBGT. It's an 9 9 opinion, as I believe you've expressed earlier, that you 10 acronym for WetBulb Globe Temperature. And that's 10 believe given the condition that Mr. Herrera was at the really the gold standard for assessing environmental time that you believe at 1:30, that he should have been conditions on site because it factors in humidity, 12 taken for medical attention at that time; correct? temperature, and the effect of the sun or the globe A. I mean, I personally -- remember I said earlier I 13 13 14 temperature. would have liked it to have happened even earlier. Remember the second time when he called out? 15 So the anemometer wouldn't get that. 16 Q. Well, would WBGT maybe used in certain settings 16 Q. Understood. 17 like military, possibly? A. Yes. So I'd say at minimum I feel like his 17 A. Yeah. We use -- WBGT is the gold standard in 18 medical attention was delayed three hours. 18 19 athletics and in military and more commonly being used 19 Q. And so here's my question: So you believe 20 in laborer settings now. 20 medical attention was delayed. It should have occurred 21 Q. You agree with me, though, that WBGT is not used 21 sooner. 22 as the standard in the industry? 22 Aren't you expressing that opinion regardless of A. Oh, no, I would agree. I say we're trying to 23 whether or not there's a citation to 49 U.S.C. Section 23

24

25

move people towards it.

We've been using in the military since 1989, '90

A. Oh, yeah, I would agree with that. I just

| 03/2 | 25/2017 | | Douglas Casa, Pn.D. |
|------|--|----|--|
| 1 | Page 134 believe his medical care was delayed. This is just | 1 | Page 136 not be able to self-asses? |
| 2 | something that is consistent with my belief. | 2 | Q. All right. |
| 3 | Q. I mean, anyone else a juror, for example, can | 3 | A. That was another one. |
| 4 | read the language of 49 U.S.C. Section 20109 and make | 4 | And then I feel like I just would highly |
| 5 | his or her own assessment whether or not that statute | 5 | recommend some kind of a little more advanced maybe |
| 6 | was complied with or violated; true? | 6 | online heat illness hydration education, a little more |
| 7 | A. Yes. Yeah. This is just my opinion. | 7 | advanced education. |
| 8 | Q. All right. So you're not rendering a legal | 8 | Could we take it to another level that you |
| 9 | opinion whether or not you believe that this statute was | 9 | know, could we require any of your supervisor level or |
| 10 | violated; true? | 10 | above have, like, an hour heat safety, you know, |
| 11 | A. Yeah. I don't think I have that jurisdiction. | 11 | training course. |
| 12 | This is just my opinion. | 12 | I have a lot of experience in that area. So |
| 13 | Q. You're simply saying that you believe the medical | 13 | we've developed courses like that. |
| 14 | treatment that day was delayed. It should have been | 14 | And we work with coaches, for instance. And it's |
| 15 | given sooner than what it was; true? | 15 | a very similar kind of circumstance. The coach is |
| 16 | | 16 | responsible for the athlete. That foreman is |
| 17 | A. Yes, yes. | 17 | responsible for that quy working. |
| 18 | Q. All right. What about Section D Item D, the | 18 | So I feel like the knowledge is here; and we need |
| 19 | A. I don't | 19 | to take it up a level. |
| 20 | Q GCOR? | 20 | Q. So with this additional training an hour |
| 21 | A. So same exact thing. It says: Everything | 21 | course or so with managers, supervisors what |
| 22 | reasonable to care for them. And I don't think | | - |
| 23 | everything reasonable was done. | 22 | information should be provided to them in your opinion? A. So more specific details on recognizing heat |
| | | | |
| 24 | Q. So the application of that rule; again, a | 24 | stroke; details related to modifications that can be |
| 25 | layperson, a juror can make his or her own analysis of | 25 | made, strategies; details related to assessing |
| 1 | Page 135 whether or not that rule was complied with or violated; | 1 | Page 137 environmental conditions on site; and then I just |
| 2 | true? | 2 | thought of one other. (Pause.) |
| 3 | A. Yes. | 3 | Oh, differentiating between the different heat |
| 4 | Q. All right. The same with Item E, you're citing | 4 | illnesses and, like, being aware of when to get |
| 5 | Maintenance-of-Way rules? | 5 | immediate medical care. |
| 6 | A. Yes. | 6 | But the other one that I just mentioned to you |
| 7 | Q. All right. Same discussion that we just had with | 7 | before is implementing a more aggressive on-site cooling |
| 8 | the others? | 8 | strategy like I suggested with the coolers. |
| 9 | A. Yes. | 9 | Q. There is a training program that's utilized you |
| 10 | Q. All right. Anything else in Item 4 | 10 | cited in your report |
| 11 | Consideration 4? | 11 | A. Yeah. |
| 12 | A. No. | 12 | Q the Quality Safety Meeting Process Heat Stress |
| 13 | Q. Okay. Consideration 5, is there anything here, | 13 | Prevention |
| 14 | Doctor, that we have not already covered? | 14 | A. Yes. |
| 15 | A. No. One is the medical care being delayed. | 15 | Q QS-97. |
| 16 | We already covered the work-to-rest ratio that $\ensuremath{\mathbf{I}}$ | 16 | A. Yes. |
| 17 | just said in No. 2. | 17 | Q. So there is specific training? |
| 18 | I do feel like more education could be done for | 18 | A. No, see, I'm not just so you know, I |
| 19 | the supervisors and employees, which I noted a little | 19 | totally I know that exists. I just think we can do |
| 20 | bit earlier. | 20 | better a little better than what you have right now. |
| 21 | Q. And that "more education" meaning this dry skin | 21 | And I'm not saying you; I think a lot of laborer |
| 22 | issue? | 22 | settings now could do a little better from what we have |
| 23 | A. Well, that was one. | 23 | right now. I think there's just some more current |
| 24 | Remember, I told you that Diaz wasn't aware that | 24 | information and better data now to support better |
| 25 | a heat stroke person might have mental compromise and | 25 | education programs. |
| 1 | | 1 | |

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Page 138 Page 140 fitness-wise and then slowly integrate a little more Q. So you believe it's a good practice that Union Pacific has this type of a program, the QS-97, in place? heat exposure? 3 Because that's -- whenever we work with anybody, Q. You believe, though, that some additional could 4 you want to get fit first before you have the heat be done; the things that you've already identified here exposure. You don't want to do both at the same time. 5 in this deposition? It's too much stress after someone's had a problem. A. Yes. 7 So if we can get to that point -- My long-term 8 Q. Okay. Anything else? 8 hope at this point now is, you know, could he have a job A. (Pause.) So I've already talked about long-term 9 somewhere in an air-conditioned environment and function 10 complications. 10 for the remainder of his life; but then also still be 11 So everything else is covered. 11 able to exist in hot conditions; meaning he can walk his 12 Q. So, yes, Consideration 6, Lasting Complications. dog; he can play with his kids outside; he can mow the 12 13 A. See, that's the only one that's kind of -- since yard? 13 I wrote this report in August, which is almost exactly Those things, I think, hopefully could be 12 months from the incident date -- and now we're, 15 accomplished. 16 whatever, nine months from that; that's the only thing 16 Q. Is that --17 that is now I'm -- you know, I'm feeling less assured 17 A. That's my hope. I don't feel like he's going to 18 that he's going to be able to recover. -- I don't have a good feeling that he could go back to I was more hopeful when I wrote this. like -- I don't think he could be a solider right now. 2.0 Q. Because now more time has passed? I don't think he could go back to the same job he had 20 21 before. I don't feel good about that right now. 2.1 22 Q. And so what is it now -- how much time passes 22 Q. But -- in regards to your hope, but do you typically, I guess, to get to the point that you believe believe more likely than not that Mr. Herrera will be that a person's not going to recover; in other words, able to be fully gainfully employed in, for example, a 25 that it's going to be a permanent issue? 25 setting where he's in an air-conditioned environment? Page 139 Page 141 A. Good question. Once they get to around 18 months A. I still am hopeful of that. to two-year mark, I start to have my doubts that the 2 MR. COX: Form and foundation. person's going to recover back to full normal function. 3 BY MR. SCHMITT: Q. And given -- I mean, you've reviewed a lot of Like, I don't have much hopes now that he could 4 5 return to, like, a job that would require intense labor 5 documents, a lot of medical records, depositions, all of in the heat. I'm hopeful, but I'm not... I don't feel 6 6 good about it. And while you're hopeful, do you believe that 8 Q. Because we're not quite two years yet? 8 more likely than not -- 51 percent or more -- that Mr. Herrera will achieve that; be able to work full-time 9 A. No, we're about --9 10 Q. Twenty-two months? 10 gainful employment? 11 A. Yeah. 11 MR. COX: Form and foundation. Q. So he may continue to have some improvement. But 12 THE WITNESS: That's a good question. 13 13 it's getting to the point that you believe it's (Pause.) 14 unlikely? 14 I honestly don't have -- it's too hard to A. Yes. I would agree with that. tell at this point. I think there's a 15 16 Q. All right. You mentioned that -- or made a 16 possibility that he could have a -- if it's the comment that he won't -- you don't believe he'll be able 17 right job in a climate-controlled facility that 17 to return to an intense labor job in the high heat. 18 doesn't require a lot of physical labor, I am 18 19 Are you rendering any opinions about what type of 19 hopeful that that is a job he could have in his work Mr. Herrera can do? 20 future. But I couldn't tell you right now A. Well, I mean, I -- so like I mentioned to you 21 21 percentages. 22 before, I deal with a lot of people in their recovery 22 BY MR. SCHMITT: 23 Q. Anything else, Doctor, in regards to Item -- I 23 process. 24 I do think we hopefully -- could we possibly help 24 guess 6, Lasting Complications is what we were just him -- could he possibly get in better shape discussing?

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Page 142
                                                                                                                    Page 144
       A. No. I think we've thoroughly gone through all
                                                               1
                                                                          And Dave just mentioned that my deposition was in
    those items.
                                                                   the winter of '14.
                                                               2
       Q. Yes. And then Item 7 is really a summary. Is
                                                               3
                                                                          MR. COX: Dave, what's the next exhibit
    there anything else here that --
 4
                                                               4
                                                                      number?
       A. No. I feel like we were very concise.
                                                               5
                                                                          (Off the record.)
           I wish I did more depositions with you compared
                                                               6
                                                                          MR. COX: For the record, we're going to
    to a lot of lawyers that this takes nine hours for
                                                               7
                                                                      mark as Exhibit 169 Dr. Casa's report to me
8
    instead of three.
                                                               8
                                                                      dated November 30, 2013, regarding Jared Whitt.
           Do you know that in this exact room -- not to go
                                                               9
                                                                           (Plaintiff's Exhibit 169, Dr. Casa's
   off topic -- but in this exact room I did a 14-hour depo
                                                               10
                                                                      November 30, 2013, report marked for
11 once. We ended at midnight. I swear. It was the Ereck
                                                              11
                                                                      identification.)
                                                               12 BY MR. COX:
12 Plancher case.
13
       Q. Are you rendering any opinions about the
                                                              13
                                                                      O. Dr. Casa, when one is in heat distress -- whether
14 relationship of Mr. Herrera's other medical
                                                                   it's heat exhaustion or heat stroke -- is he or she in a
   conditions -- high blood pressure, prediabetes,
15
                                                               15
                                                                   position to be aware of his or her own body and its
  hyperlipidemia, high cholesterol -- all of these other
16
                                                                   limits and conditions?
                                                              16
17
    problems that he has to any of the issues in this case
                                                               17
                                                                      A. With heat stroke there's a definite possibility
   or problems that he's currently experiencing?
                                                              18
                                                                   they would not be.
       A. Do you mind asking that again? I felt like there
                                                              19
                                                                          With heat exhaustion I would say they probably
   was a lot in there. Do you mind just splicing that just
                                                                   have better wits about themselves because of less CNS
20
                                                              20
21
   a tiny bit?
                                                              21
                                                                   dysfunction.
22
       Q. Sure.
                                                               22
                                                                          But the answer to your question overall is
                                                                   generally, if you're not sure, you don't want to rely on
       A. Okay.
       Q. I'm trying to figure out the extent of your
                                                                   their own self-assessment to make decisions.
   opinions -- and I think I understand. But the medical
                                                              25
                                                                      Q. And can you give us examples of what CNS --
                                                     Page 143
                                                                                                                    Page 145
1 records do demonstrate Mr. Herrera has some other
                                                                   central nervous system -- dysfunction Guillermo Herrera
   medical problems. And I'm trying to find out whether or
                                                                   was demonstrating on the job site and at the hospital?
   not you're expressing any opinions on any of those other
                                                               3
                                                                      A. Sure, yeah. Confusion, oriented to place or
   medical issues or if you're simply going to defer to
                                                                   purpose; those would be the ones I think of most
    other providers, experts in those areas?
                                                               5
                                                                   commonly right now.
                                                                      Q. How about blurred vision?
       A. So consistent with what I said before, I'm not an
                                                               6
   expert in those areas and I don't have an opinion on
                                                               7
                                                                      A. Yeah. I mean, lethargic and blurred vision you
8
   those.
                                                               8
                                                                   also could consider there, yes.
                                                               9
9
       Q. All right.
                                                                      Q. Hang on one second. (Pause.)
10
           Doctor, do you have any other opinions or bases
                                                               10
                                                                           (Off the record.)
   for your opinions that we have not already discussed
                                                                   BY MR. COX:
12
   here in this case?
                                                              12
                                                                      Q. Dr. Casa, we've seen in your articles and the
       A. No. I feel like I've had the opportunity to
13
                                                               13
                                                                   articles by other doctors in the case a condition that
14
    share all the key items I wanted to talk about.
                                                                   occurs in heat stroke called diffuse intravascular
                                                              14
       Q. Okay. I have nothing further.
                                                                   coaqulation.
15
                                                               15
16
           THE WITNESS: Jim, do you have anything?
                                                               16
                                                                          What is diffuse intravascular coagulation?
17
                                                              17
                                                                      A. Are you talking about DIC?
   EXAMINATION BY MR. COX:
18
                                                               18
                                                                      Q. Yes, sir.
19
       Q. I have a couple of things.
                                                               19
                                                                      A. Disseminated intravascular coagulation, yes.
           Dr. Casa, we talked a little bit about the Jared
                                                                      Q. I'm sorry. It is disseminated. I said diffuse.
21 Whitt case. In that case did you prepare a report that
                                                                   It's disseminated intravascular coaquiation.
                                                               21
  you provided to me and that was shared with the Union
                                                              22
                                                                      A. Yes. DIC is a complication with heat stroke
23
   Pacific Railroad?
                                                               23
                                                                   where you have issues related to blood flow in the body.
       A. Yes. I believe in fall of 2013 I submitted the
                                                              24
                                                                          And it's generally a very bad indication that a
                                                                   heat stroke is not going well, not recovering well, and
   report to you.
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Page 146
                                                                                                                      Page 148
    that the outcome and prognosis might not be good.
                                                                    that that, in fact, occurred with Mr. Herrera; true?
                                                                       A. Yeah, with DIC I said I'd have to examine that
2
           And it's one of the reasons you see organ failure
                                                                2
    because there's issues related to oxygenated blood being
                                                                3
                                                                    further to look for that specifically.
    sent to the organs so that they can function properly.
                                                                           But I didn't see the organ failure that you
                                                                4
                                                                    normally see.
        Q. Dr. Casa, based on your experience and the people
                                                                5
    that you've worked with who suffered an exertional heat
                                                                6
                                                                        Q. Okay. What do you need to look at to examine the
    stroke and the follow-up work that you've done at the
                                                                    DIC further?
                                                                7
    Korey Stringer Institute, what is the consequence in
                                                                8
                                                                       A. Oh, I would just want to look back at the
8
    Guillermo Herrera of the three-hour delay in obtaining
                                                                9
                                                                    hospital records.
10
    medical care on July 26, 2015?
                                                                10
                                                                       Q. From that initial admission at Onaga?
11
           MR. SCHMITT: Form, foundation.
                                                               11
                                                                       A. Yeah.
12
           THE WITNESS: I believe if his amount of
                                                                12
                                                                       Q. Let me just hand you that medical record from
13
        time that he was hyperthermic was minimized,
                                                                    Onaga from July 26 of 2015.
                                                               13
        that he would not have had the lasting
                                                                        A. (Pause.) I don't see any evidence of it right
        complications that have caused the current
                                                                    now. I'd have to -- I mean, there's -- I don't have any
15
                                                                15
16
        lawsuit we're dealing with.
                                                                    indications right now of it, and I didn't prior either.
                                                               16
17
    BY MR. COX:
                                                               17
                                                                           But I'd have to -- like I said, maybe I haven't
18
        Q. And what are those complications, again?
                                                               18
                                                                    looked at everything.
19
           MR. SCHMITT: Same objections.
                                                                19
                                                                        Q. Sure. And I can represent to you these were
2.0
           THE WITNESS: As mentioned earlier, things
                                                                    marked Bates stamped UP Herrera 39 through UP Herrera
                                                                20
21
       like exercise heat intolerance;
                                                                    52 -- which Mr. Cox and I both have -- which is the
                                                               2.1
22
       light-headedness; dizziness; you know,
                                                                    entire medical record from his admission at Onaga.
       difficulty with some basic life functions
                                                                           There's nothing -- You've just reviewed it.
23
                                                               23
24
       because of that.
                                                                24
                                                                    There's nothing in this record that you've just reviewed
25
                                                                25
                                                                    to support the diagnosis that Mr. Herrera, in fact,
           MR. COX: Dr. Casa, that's all the questions
                                                      Page 147
                                                                                                                      Page 149
       I have.
                                                                    suffered disseminated intervascular coaqulation; true?
2
           Thank you, sir.
                                                                2
                                                                        A. Yeah, based on my cursory look, I agree with that
3
       A. Thank you.
                                                                3
                                                                    statement.
                                                                        Q. All right. And then in regards to the amount of
 5
    FURTHER EXAMINATION BY MR. SCHMITT:
                                                                    time -- the last question Mr. Cox asked you -- So let me
6
        Q. Doctor, just a couple of follow-ups and then
                                                                     start over.
7
    we're done.
                                                                            In regards to the amount of time that Mr. Herrera
8
           In regards to the CNS issues, you mentioned
                                                                8
                                                                    suffered hyperthermia, you believe that -- I'll strike
    lethargic, blurred vision. You said they could be
                                                                    that and start over.
                                                                9
10
    related to a heat stroke.
                                                                10
                                                                            (Off the record.)
11
           They can also be due to many other medical
                                                                    BY MR. SCHMITT:
12
   issues; true?
                                                                12
                                                                        Q. You rendered an opinion about the amount of time
13
       A. Yes.
                                                                13
                                                                    that Mr. Herrera was suffering this issue and that that,
14
        Q. All right. DIC, you indicated that it can result
                                                                    in turn, led to his complications.
                                                               14
    in significant blood flow problems and leading to organ
                                                                15
                                                                           My question is: How much time -- if that time
16
   failure.
                                                                16
                                                                    had been reduced -- in other words, at what point in
17
           You're not testifying Mr. Herrera had any organ
                                                                    time do you believe that Mr. Herrera would have suffered
                                                               17
   failure, are you?
                                                                    no complications had he sought medical treatment at that
18
                                                                18
19
       A. No.
                                                               19
                                                                    point?
20
        Q. Or that he suffered from DIC?
                                                               20
                                                                        A. Well, we went through the timelines earlier. So,
21
       A. That I would have to examine more closely.
                                                                    obviously, there's no -- there's not a set moment that
           But I didn't see that -- the organ failure that
                                                                    we have no complications. We just enhance our odds of a
                                                                22
   you typically would see -- that you often see after a
                                                                    full recovery if we minimize the amount of time we're
23
                                                                23
24
    heat stroke.
                                                                24
                                                                    hyperthermic.
        Q. All right. So you're not expressing any opinions
                                                                           So if at that 1:30 moment when they called for
```

| 1 | Page 150 | 1 | Page 152 |
|--|---|--|---|
| 1 | his supervisor called and a car came; if they went | 2 | Please note any error(s) and/or corrections thereof on |
| 2 | straight to the hospital right then, I have a good | | this sheet. The rules require a reason for any change |
| 3 | amount of confidence that he would have been able to | 3 | or correction. It may be general; such as, "to correct |
| 4 | make a full recovery. | | stenographic error," or "to clarify the record," or "to |
| 5 | Q. What if Mr. Herrera had arrived at the hospital | 4 | conform with the facts. |
| 6 | within one hour of having suffered those issues where | 5 | RE: No. 8:15-cv-426-JMG-CRZ, GUILLERMO HERRERA, III, |
| 7 | he's then taken from the job site? If one hour of time | | vs. UNION PACIFIC RAILROAD COMPANY; Deposition of |
| 8 | had passed instead of three hours, do you believe that | 6 | DOUGLAS CASA, Ph.D., taken May 25, 2017: |
| 9 | he would have suffered any long-term complications? | 7 | |
| 10 | A. Let me say, I think he would have had long-term | | PAGE LINE NOW READS SHOULD READ REASON FOR CHANGE |
| 11 | complications; but I don't think they would have been | 8 | |
| 12 | permanent complications. | 10 | |
| 13 | So right now we're on the brink of them becoming | 11 | |
| 14 | permanent. | 12 | |
| 15 | Q. All right. | 13 | |
| 16 | Okay, that's all I have. | 14 | |
| 17 | | 15 | |
| | MR. COX: Dr. Casa, thanks very much. | 16 | |
| 18 | THE WITNESS: Thank you, Jim. | 17 | |
| 19 | Thank you, Dave. | 18 | |
| 20 | MR. SCHMITT: You bet. | 19 | |
| 21 | (The deposition concluded at 11:35 a.m.) | 20 | |
| 22 | | 22 | |
| 23 | | 23 | |
| 24 | | 24 | DATE |
| 25 | | 25 | DOUGLAS CASA, Ph.D |
| | | | |
| | Page 151 | | Paga 152 |
| 1 | Page 151 CERTIFICATE OF DEPONENT | 1 | Page 153 CERTIFICATE OF REPORTER |
| 1 2 | | 1 2 | |
| | | | CERTIFICATE OF REPORTER |
| 2 | CERTIFICATE OF DEPONENT I, DOUGLAS CASA, Ph.D., do hereby certify the | 2 | CERTIFICATE OF REPORTER I, Victoria L. Germani, RPR, LSR, and Notary |
| 2 3 4 | CERTIFICATE OF DEPONENT I, DOUGLAS CASA, Ph.D., do hereby certify the foregoing testimony given by me on May 25, 2017, is true | 2 | CERTIFICATE OF REPORTER I, Victoria L. Germani, RPR, LSR, and Notary Public duly commissioned and qualified within and for |
| 2 3 4 5 | CERTIFICATE OF DEPONENT I, DOUGLAS CASA, Ph.D., do hereby certify the | 2 3 4 | CERTIFICATE OF REPORTER I, Victoria L. Germani, RPR, LSR, and Notary Public duly commissioned and qualified within and for the State of Connecticut; do hereby certify that |
| 2 3 4 5 | CERTIFICATE OF DEPONENT I, DOUGLAS CASA, Ph.D., do hereby certify the foregoing testimony given by me on May 25, 2017, is true | 2 3 4 5 | CERTIFICATE OF REPORTER I, Victoria L. Germani, RPR, LSR, and Notary Public duly commissioned and qualified within and for the State of Connecticut; do hereby certify that pursuant to Notice there appeared before me on |
| 2 3 4 5 6 7 | I, DOUGLAS CASA, Ph.D., do hereby certify the foregoing testimony given by me on May 25, 2017, is true and accurate to the best of my ability. | 2 3 4 5 | CERTIFICATE OF REPORTER I, Victoria L. Germani, RPR, LSR, and Notary Public duly commissioned and qualified within and for the State of Connecticut; do hereby certify that pursuant to Notice there appeared before me on May 25, 2017, at 9:33 a.m., the following named person, |
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